# CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS.

New York, June 22, 1905.


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## CONSTRUCTION NEWS.

### PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

| Bids close | Work. | Place. | On file. | See issue. |
|---|---|---|---|---|
| June 24 | Sewers, etc. | Ravenna, O. | S. | 6-15 |
| *26 | Paving. | Wellsville, N. Y. | S. | 6-15 |
| 26 | Sewer system. | London, O. | S. | 6-15 |
| *28 | Irrigation canals. | Billings, Mont. | P & S. | 6-15 |
| *30 | Pumping machinery, etc. | Toledo, O. | S. | 5- 4 |
| *30 | Sewers. | Torrington, Conn. | S. & B. S. | 6-15 |
| 21 | Bridge. | No. Adams, Mass. | P. & S. | 6-15 |
| *23 | Pipe and specials. | Winnipeg, Man. | S. | 6-15 |
| July | | | | |
| *1 | Municipal building. | Washington, D. C. | S. | 6- 1 |
| *1 | Paving. | Helena, Ark. | P. & S. | 6-15 |
| *1 | Street railways. | Chicago, Ill. | P. & S. | 4-13 |
| 1 | Cables. | Philadelphia, Pa. | S. | 6-22 |
| 1 | Dredging. | Washington, D. C. | S. | 6-22 |
| *3 | Sewer system. | Gettysburg, Pa. | P. | 6-15 |
| *3 | Reservoir. | Winnipeg, Man. | S. | 6-15 |
| *7 | Conduit. | Chicago, Ill. | P. & S. | 6- 1 |
| 15 | Chimney. | Pensacola, Fla. | S. | 6-15 |
| 15 | Coaling plant. | Pensacola, Fla. | S. | 6-15 |
| 15 | Power house. | Pensacola, Fla. | S. | 6-15 |
| 29 | Dredging. | Bremerton, Wash. | S. | 6-22 |
| Aug. | | | | |
| 26 | Coaling plant. | Philippines. | S. | 5- 4 |
| Sept. | | | | |
| 1 | Steel manufacture. | New S. Wales. | S. | 3-23 |

*Work advertised in Engineering News.

### LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See Issue.

LIGHT, HEAT AND POWER PLANTS

June 26. Electric plant, Highland, N. J. ..... June 8
Advertised, Eng. News, June 8-15.
July 5. Electric light plant, Youngstown, O. ..... June 22
Advertised, Eng. News, June 22 and 29.
July 15. Power plant, Pensacola, Fla. ..... June 22

BRIDGES.

June 23. Bridge, etc., Brookholm, Ont. ..... June 15
June 23. Bridge, Reading, Pa. ..... June 15
Advertised, Eng. News, June 15.
June 24. Culverts and abutments, Cleveland, O. ..... June 15
June 24. Bridge, iron, Moline, Ill. ..... June 8
June 24. Bridge, steel, Ada, Mich. ..... June 8
June 26. Bridge, Muir, Mich. ..... June 8
June 26. Concrete arch, Thameesford, Ont. ..... June 15
June 26. Culverts, Hackensack, N. J. ..... June 15
June 27. Bridge, W. Chester, Pa. ..... June 22
June 27. Bridge, Indianapolis, Ind. ..... June 22
June 27. Briages, Cornwall Centre, Ont. ..... June 22
June 28. Enlarging draw, Newport, R. I. ..... June 15
Advertised, Eng. News, June 1 to 29. ..... June 1
June 28. Concrete pier, Peoria, Ill. ..... June 22
June 28. Bridges, steel, Ft. Wayne, Ind. ..... June 22
June 29. Pile bridge, Casper, Wyo. ..... June 22
June 29. Bridges, Crysler, Ont. ..... June 22
June 29. Bridge, Paterson, N. J. ..... June 22
June 29. Bridge, Lima, O. ..... June 22
June 30. Bridges, Reading, Pa. ..... June 22
Advertised, Eng. News, June 22.
July 3. Bridge, iron, Natchitoches, La. ..... June 8
July 5. Wagon bridges, Vale, Ore. ..... June 1
July 5. Bridge, Tillamook, Ore. ..... May 25
July 5. Bridges, Plymouth, Ind. ..... June 15
July 5. Bridge, Fossil, Ore. ..... June 15
July 5. Bridges, steel, Jacksonville, Fla. ..... June 22
July 5. Bridges, Spartanburg, S. C. ..... June 22
July 6. Bridge, Pikeville, Ky. ..... June 22
July 6. Bridge, Redding, Cal. ..... June 22
July 6. Bridges, Lawrenceville, Ga. ..... May 25
July 8. Bridge, Portland, Me. ..... June 1
Advertised, Eng. News, June 15 to July 13. ..... June 15
July 8. Bridges, Terre Haute, Ind. ..... June 15
July 11. Bridge, steel, Castlewood, S. Dak. ..... June 8
July 14. Bridges, Owen Sound, Ont. ..... June 22

BUILDINGS.

June 23. Post-office, Vancouver, B. C. ..... June 8
June 24. Officers' quarters, Washington, D. C. ..... June 15
Advertised, Eng. News, June 15.
June 24. Church, Huntington, Ind. ..... June 15
June 25. Buildings (mfg. plants), Acworth, Ga. ..... June 15
June 26. Church, Perham, Minn. ..... June 15
June 26. Building, Buffalo, N. Y. ..... June 8
June 26. Post-office, Niagara Falls, N. Y. ..... May 25
Advertised, Eng. News, May 25 and June 1.
June 27. School, Montclair, N. J. ..... June 8
Advertised, Eng. News, June 8.
June 27. Heating apparatus, Grand Forks, N. Dak. ..... June 8
June 27. Heating and ventilating, Los Angeles, Cal. ..... June 15
June 27. Rifle gallery, Newport, R. I. ..... June 22
June 28. Jail, Newport, Ark. ..... June 22
June 28. Heating, plumbing, etc., Binghamton, N. Y. ..... June 8
Advertised, Eng. News, June 8 to 29.
June 28. Heating plant, Shelbyville, Ind. ..... June 8
June 28. Post-office, Westchester, Pa. ..... May 25
Advertised, Eng. News, May 25 and June 1.
June 29. Hospital, Washington, D. C. ..... June 1
Avertised, Eng. News, June 1 to 29.
June 29. Building, Washington, D. C. ..... June 8
Advertised, Eng. News, June 8 to July 6.
July 1. Hall, Atlantic City, N. J. ..... June 15
July 1. Municipal building, Washington, D. C. ..... May 25
Advertised, Eng. News, May 25 to July 7.
July 1. Court-house, Wallace, Idaho ..... May 18
July 1. Court-house, Globe, Ariz. ..... June 22
July 3. Court-house and jail, Leesville, La. ..... May 11
July 6. Capitol building, Montgomery Ala. ..... June 1
July 8. School, Poland, O. ..... June 22
July 10. Court-house, Wallace, Idaho ..... June 22
July 11. Hospital, Goshen, Ind. ..... June 8
July 11. Wiring, Lincoln, Neb. ..... June 15
July 12. Heating apparatus, Deadwood, S. Dak. ..... June 15
July 15. Jail, Ladysmith, Wis. ..... June 22
July 15. Building, Pensacola, Fla. ..... June 15
July 18. Buildings, Wahpeton, N. Dak. ..... June 15
July 20. Custom-house, San Francisco, Cal. ..... June 8
Advertised, Eng. News, June 1 and 8.
July 22. Hospital, New Orleans, La. ..... June 15
Advertised, Eng. News, June 15 and 22.
July 24. Post-office, Fargo, N. Dak. ..... June 22
Advertised, Eng. News, June 22 and 29.
July 25. Post-office, Muncie, Ind. ..... June 22
July 26. Post-office, Spartanburg, S. C. ..... June 22
Aug. 9. Building, etc., Chicago, Ill. ..... June 22
Sept. 14. Hotel, Little Rock, Ark. ..... June 22

WATER SUPPLY AND IRRIGATION.

June 22. Water-works, Liberty, Mo. ..... June 15
June 24. Reservoir (Cuba), Washington, D. C. ..... May 18
June 24. Engine, pump, Dumont, Minn. ..... June 22
June 26. Dismantling standpipe, Sherman, Tex. ..... June 8
June 26. Pumps, Soldiers' Home, Cal. ..... June 15
June 26. Tank and tower, Meaford, Ont. ..... June 15
June 28. Irrigation canal, Billings, Mont. ..... May 4
Advertised, Eng. News, May 4 to June 15.
June 28. Pumping station, etc., Billings, Mont. ..... May 4
Advertised, Eng. News, May 4 to June 15.
June 29. Water-works, elec. plant, Melrose, Minn. ..... June 22
June 30. Water pipe, Eldora, Ia. ..... June 22
Advertised, Eng. News, June 22.
June 30. Pumping machinery, etc., Toledo, O. ..... June 1
Advertised, Eng. News, June 1 to 22.
June 30. Water-works, Mt. Olive, Ill. ..... June 15
Advertised, Eng. News, June 15.
June 30. Pipe and specials, Kansas City, Mo. ..... June 15
Advertised, Eng. News, June 15 to July 6.
July 3. Reservoir, Winnipeg, Man. ..... June 1
Advertised, Eng. News, June 1 to 22.
July 5. Hydrants, New York, N. Y. ..... June 22
July 5. Pipe, Spokane, Wash. ..... June 22
July 7. Water main, Halsted, Minn. ..... June 22
July 17. Water-works, Bishopville, S. C. ..... June 8
Advertised, Eng. News, June 22 to July 20.
July 18. Mains, reservoir, Havre, Mont. ..... June 22
July 19. Pumps, engines, etc., Washington, D. C. ..... June 22

SEWERAGE.

June 23. Sewer, Ft. Walla Walla, Wash. ..... June 15
June 24. Sewers, Seattle, Wash. ..... June 15
June 24. Sewer, etc., Ravenna, O. ..... June 15
Advertised, Eng. News, June 15 and 22.
June 24. Sewer and water system, Norfolk, Va. ..... June 15
Advertised, Eng. News, June 15 and 22.
June 26. Sewer system, London, O. ..... June 15
Advertised, Eng. News, June 15 and 22.
June 26. Sanitary sewer, London, O. ..... June 8
June 26. Sewer, Chisholm, Minn. ..... June 22
June 26. Sewers, Long Island City, N. Y. ..... June 22
June 26. Sewer system, Meaford, Ont. ..... June 22
June 27. Sewer pipe, etc., Nat'l Military Home, Kan. ..... June 8
June 27. Sewers, Cleveland Heights, O. ..... June 8
June 27. Sewers, etc., Greensburg, Ind. ..... June 8
Advertised, Eng. News, June 8 and 15.
June 27. ewer, Binghamton, N. Y. ..... June 15
Advertised, Eng. News, June 15 and 22.
June 28. Sewer system, Quitman, Ga. ..... June 15
Advertised, Eng. News, June 15 and 22.
June 28. Sewers, Brooklyn, N. Y. ..... June 22
June 29. Sewers, La Grange, Ill. ..... June 22
June 29. Sewer, So. Milwaukee, Wis. ..... June 22
July 1. Sewer, Bridgeport, Conn. ..... June 15
Advertised, Eng. News, June 15 and 22.
July 1. Sewer system, St. Charles, Mo. ..... June 15
July 1. Sewers, Morganton, N. C. ..... June 15
July 3. Sewer system, Gettysburg, Pa. ..... June 1
Advertised, Eng. News, June 15 to July 6. ..... June 15
July 3. Sewer, Stephan, S. Dak. ..... June 22
July 3. Lateral sewer, Brainerd, Minn. ..... June 22
July 4. Lateral sewers, Brainerd, Minn. ..... June 15
July 5. Pipe sewer, Cincinnati, O. ..... June 15
July 7. Sewers, Abilene, Kan. ..... June 22
Advertised, Eng. News, June 15.
July 8. Sanitary sewers, Macon, Ga. ..... June 15
July 13. Sewers, Mamaroneck, N. Y. ..... June 22
Advertised, Eng. News, June 22 to July 13. ..... June 22
July 21. Sewer, Utica, N. Y. ..... June 22
Advertised, Eng. News, June 15 to July 20. ..... June 15

STREETS AND ROADS.

June 23. Road, Cincinnati, O. ..... June 8
June 23. Roads and walks, Ft. Totten, N. Y. ..... June 15
Advertised, Eng. News, June 15 and 22.
June 24. Concrete walks, Seattle, Wash. ..... June 15
June 24. Paving brick, Washington, D. C. ..... June 1
June 24. Paving, vitrified brick, Belleville, Ill. ..... June 22
June 24. Curbs & gutters, Ft. Leavenworth, Kan. ..... June 22
June 26. Paving, etc., Long Island City, N. Y. ..... June 22
June 26. Granolithic sidewalks, Elmira, Ont. ..... June 22
June 26. Road, Mt. Airy, Md. ..... June 22
June 26. Macadamizing, Cincinnati, O. ..... June 22
June 26. Walks, Kewanee, Ill. ..... June 22
June 26. Paving, etc., Cincinnati, O. ..... June 22
June 26. Paving, Newark, N. J. ..... June 8
Advertised, Eng. News, June 15. ..... June 15
June 26. Paving and curbing, Wellsville, N. Y. ..... June 15
Advertised, Eng. News, June 15 and 22.
June 27. Road, Ellicott City, Md. ..... June 15
June 27. Road, Boise, Idaho. ..... June 8
June 27. Paving, etc., Dayton, O. ..... June 22
June 27. Paving, Chicago, Ill. ..... June 22
June 27. Paving, New Brighton, N. Y. ..... June 22
June 27. Paving, Pottstown, Pa. ..... June 22
June 28. Roads & walks, Ft. Moultrie, S. C. ..... June 22
June 28. Paving, Cincinnati, O. ..... June 22
June 28. Paving, Portsmouth, O. ..... June 8
June 29. Cement walks, etc., Crawfordsville, Ind. ..... June 15
June 29. Asphalt paving blocks, New York, N. Y. ..... June 22
June 29. Paving, New York, N. Y. ..... June 22
July 1. Paving, Trinidad, Colo. ..... June 22
July 1. Paving, Helena, Ark. ..... June 22
Advertised, Eng. News, June 15 to July 6. ..... June 15
July 1. Paving, brick, Cleveland, O. ..... June 8
July 3. Paving, Perth Amboy, N. J. ..... June 22
July 3. Paving, Woodville, O. ..... June 22
July 3. Roads, Greensburg, Ind. ..... June 22
July 3. Roads, Greencastle, Ind. ..... June 22
July 5. Roads, Mt. Holly, N. J. ..... June 22
July 5. Road, gravel, Logansport, Ind. ..... June 22
July 5. Roads, Paoli, Ind. ..... June 22
July 5. Roads, Knox, Ind. ..... June 22
July 5. Paving, Emlenton, Pa. ..... June 22
Advertised, Eng. News, June 15.
July 5. Paving, asphalt, Cincinnati, O. ..... June 15
July 7. Grading, etc., Monroe, Wis. ..... June 22
July 7. Road, Vincennes, Ind. ..... June 22
July 8. Paving, Beloit, Wis. ..... June 22
July 11. Grading, Cleveland Heights, O. ..... June 22
July 11. Paving, brick, Peekskill, N. Y. ..... June 22
Advertised, Eng. News, June 22.
July 12. Stone road, Freehold, N. J. ..... June 22
Advertised, Eng. News, June 22 to July 13.
July 20. Stone, Washington, D. C. ..... June 22
Advertised, Eng. News, June 22 to July 20.

MISCELLANEOUS CONTRACTS.

June 24. Freight elevator, Charleston, S. C. ..... June 1
June 24. Ry. grading, Bluffton, Ind. ..... June 22
June 26. Gymnastic apparatus, Washington, D. C. ..... June 22
Advertised, Eng. News, June 22.
June 26. Dredging, Wilmington, Del. ..... June 1
Advertised, Eng. News, June 1 to 29.
June 26. Dredging, Boston, Mass. ..... June 1
Advertised, Eng. News, June 1 to 29.
June 26. Telephone system, Belle Fourche, S. Dak. ..... June 1
Advertised, Eng. News, June 1 to 29.
June 26. Dredging, Charleston, S. C. ..... June 1
Advertised, Eng. News, June 1 to 29.
June 26. Dike and riprap, Duluth, Minn. ..... June 1
Advertised, Eng. News, June 1 to 29.
June 26. Drainage ditches, Webster City, Ia. ..... June 8
June 27. Machine tools, Washington, D. C. ..... June 8
June 27. Dredging, Duluth, Minn. ..... June 1
Advertised, Eng. News, June 1 to 29.
June 27. Motors, lathes, etc., Washington, D. C. ..... June 15
June 27. Spikes, cement, etc., Washington, D. C. ..... June 15
June 27. Timber dike, Boston, Mass. ..... June 22
June 27. Drainage work, Osnabruck, Ont. ..... June 22
June 28. Brook work, Newton, Mass. ..... June 22
June 28. Jetty work, Galveston, Tex. ..... June 1
Advertised, Eng. News, June 1 to 29.
June 29. Sand bins, Washington, D. C. ..... June 15
June 29. Ditch work, Prophetstown, Ill. ..... June 15
June 29. Grading, Lynn, Mass. ..... June 22
June 30. Dredging, Portland, Me. ..... June 1
Advertised, Eng. News, June 1 to 29.
June 30. Dredging, Savannah, Ga. ..... June 1
Advertised, Eng. News, June 1 to 29.
June 30. Tug boat, Washington, D. C. ..... June 8
June 30. Portland cement, Cincinnati, O. ..... June 8
July 1. Dredging, etc., Jacksonville, Fla. ..... June 8
Advertised, Eng. News, June 8 to 29.
July 1. Dredging, Montgomery, Ala. ..... June 8
Advertised, Eng. News, June 8 to 29.
July 1. Power dredge, Chicago, Ill. ..... June 1
Advertised, Eng. News, June 1 to 22.
July 1. Underground cables, Washington, D. C. ..... June 15
July 1. Dredging, Washington, D. C. ..... June 15
July 1. Street railway, Chicago, Ill. ..... Apr 13
Advertised, Eng. News, April 13 to May 11.
July 1. Cables, Philadelphia, Pa. ..... June 22
July 1. Mining work, Loomis, Wash. ..... June 22
July 3. Garbage disposal, Port Chester, N. Y. ..... June 22
July 3. Dam, cribs, etc., Mobile, Ala. ..... June 8
Advertised, Eng. News, June 8 to 29.
July 3. Dredging, etc., Norfolk, Va. ..... June 8
Advertised, Eng. News, June 8 and 15.
July 3. Bear trap gates, Pittsburg, Pa. ..... June 8
Advertised, Eng. News, June 8 to 29.
July 5. Dredging, Baltimore, Md. ..... June 8
Advertised, Eng. News, June 8 to 29.
No date. Railway grading, Baltimore, Md. ..... June 15
Advertised, Eng. News, June 15 to July 6.
July 5. Dynamite, doors, etc., Washington, D. C. ..... June 15
July 5. Quarry spalls, New Orleans, La. ..... June 22
July 5. Lamps, cement, etc., Washington, D. C. ..... June 22
July 5. Searchlight outfits, Washington, D. C. ..... June 22
Advertised, Eng. News, June 22 and 29.
July 6. Dredging, Wilmington, Del. ..... June 8
Advertised, Eng. News, June 8 to July 6.
July 7. Metal work, Philadelphia, Pa. ..... June 15
Advertised, Eng. News, June 15 and 22.
July 7. Conduit, Chicago, Ill. ..... June 15
Advertised, Eng. News, June 15 to July 6.
July 8. Jetty extension, Newport, R. I. ..... June 15
Advertised, Eng. News, June 15 and 22.
July 8. Dredging, Newport, R. I. ..... June 15
Advertised, Eng. News, June 15 and 22.
July 10. Miscellaneous supplies, Washington, D. C. ..... June 15
Advertised, Eng. News, June 15 to July 13.
July 10. Boiler, Wilmington, Del. ..... June 15
Advertised, Eng. News, June 15 to July 13.
July 10. Steam dredge, Spain. ..... Apr. 27
Advertised, Eng. News, June 15 to July 13. ..... June 15
July 12. Dredging, etc., Jacksonville, Fla. ..... June 15
Advertised, Eng. News, June 15 to July 13.
July 12. Dredging, Portland, Me. ..... June 15
Advertised, Eng. News, June 15 to July 13.
July 14. Dredging, Boston, Mass. ..... June 15
Advertised, Eng. News, June 15 to July 13.
July 14. Dredging, Mobile, Ala. ..... June 22
Advertised, Eng. News, June 22 to July 20.
July 15. Brick chimney, Pensacola, Fla. ..... June 15
July 15. Coaling plant, Pensacola, Fla. ..... June 15
July 17. Valves, steam whistles, etc., Wash. D. C. ..... June 15
Advertised, Eng. News, June 15 to July 13.
July 17. Railway construction, Africa. ..... Apr. 27
July 17. Wire, rope, etc., Memphis, Tenn. ..... June 22
Advertised, Eng. News, June 22 to July 20.
July 17. Dredging, Philadelphia, Pa. ..... June 22
Advertised, Eng. News, June 22 to July 20.
July 18. Supplies, Washington, D. C. ..... July 22
July 18. Steel, Washington, D. C. ..... June 22
July 18. Track bolts, spikes, etc. ..... June 22
July 20. Wreck removal, Charleston, S. C. ..... June 22
Advertised, Eng. News, June 22 to July 20.
July 20. Dredging, Hawaii ..... June 22
Advertised, Eng. News, June 22 to July 27.
July 29. Dredging, Bremerton, Wash. ..... June 22
July 31. Concrete, ry. wk., Florida East Coast Ry. ..... June 22
Advertised, Eng. News, June 22 to July 27.
Aug. 17. Dike, Los Angeles, Cal. ..... June 22
Advertised, Eng. News, June 22 to Aug. 3.
Aug. 26. Coaling plant, Philippines. ..... May 4
Sept. 1. Steel manufacture, New South Wales. ..... Mar. 23
Advertised, Eng. News, Mar. 30 to June 29.
Apr. 2, 1906. Port works, Chile ..... Apr. 27
Advertised, Eng. News, Apr. 27 to Jan 25.
Nov. 1. Railroads, Philippines ..... June 15

## RAILWAYS.

*The names of parties awarded contracts are printed in capital letters.*

BEAUMONT & GREAT NORTHERN.—This company is reported to have been granted a charter in Texas to build a railroad from Trinity, Trinity County, on the International & Great Northern Ry., in a southeasterly direction to Onalaska, Polk County, thence to Livingston, Tex., a distance of about 37 miles. Surveys are being made. As soon as the line is located contracts probably will be let. The capital stock is $370,000. The following are the incorporators: William Carlisle and George W. Pennell, of Atchison, Kan.; L. O. Jackson, Onalaska, Tex.; James E. Hill, L. T. Sloan and W. H. Knox, of Livingston, Tex.; A. C. Bird, Chicago, Ill.; R. C. Fyfe, Tyler, Tex.; H. E. Farrell, Saint Louis, Mo.; W. F. N. Davis, Groveton, Tex.

CANADIAN PACIFIC.—FOLEY BROS., of St. Paul, Minn., has been awarded a $3,000,000 contract for building an extension for this company, it is reported, from Winnipeg, Man.

CHICAGO, BURLINGTON & QUINCY.—Improvements at Galesburg, Ill., are under consideration. J. E. Murphy, Galesburg, is Engr. M. W.; J. C. Sheahan, Galesburg, is Supt. Construction.

CLEAR VALLEY.—Company has been incorporated in Kentucky to build a 5½-mile railway in Pike County, Ky. E. C. Lyon, of Caldwell, N. J., and Charles Stillman and G. R. Heffley, of Huntington, W. Va., are named as incorporators.

CHICAGO & NORTHWESTERN.—KILPATRICK BROS., of Lincoln, Neb., are reported successful bidders for grading the Casper-Landes, Wyo., extension. This extension may be continued from Landes at a later date. E. C. Carter, Chicago, is Ch. Engr.

CANADIAN VALLEY & WESTERN.—Company has submitted to the Commercial Club of Byars, Ind. T., a proposition to build its line into that town. The proposition submitted was a cash bonus of $10,000, payable upon completion of the road into Byars. See June 8.

CHATTANOOGA, ANDERSON & ATLANTIC.—The projected Ohio, Knoxville & Port Royal and the Ohio River, Anderson & Tidewater companies have been consolidated under the name of the Chattanooga, Anderson & Atlantic Ry. Co. The capital stock is $300,000. Albert A. Martin, Pres.; Frederick A. Johnson, first vice-Pres. Directors: Albert R. Martin, Frederick A. Johnson and J. R. Lea, of Chicago; N. B. Neeley, of Milwaukee, and J. E. Breazeale, P. K. McCully, Sr., B. F. Whitner, J. J. Fretwell, of Anderson, S. C., and R. E. A. Hambly, of Clayton, Ga. Headquarters at Anderson, S. C.

DES MOINES, IOWA FALLS & NORTHERN.—Subscription may be raised along proposed route for the extension of this railroad to Winona from Des Moines, Ia. E. S. Ellsworth, Iowa Falls, Ia., is Pres.

DENVER, ENID & GULF.—This company will build into Oklahoma City, Okla., it is reported, if city will furnish terminal and right-of-way. E. L. Peckham, Enid, Okla., is Gen. Mgr.

DELAWARE, LACKAWANNA & WESTERN.—A report from Binghamton, N. Y., states that the CRARY CONSTRUCTION CO. has been awarded the contract for laying a portion of new third-track line.

FLORIDA EAST COAST RY.—Bids are asked until July 31 at office of J. C. Meredith, Constructing Engr., Miami, Fla., for construction and completion of reinforced concrete arch work, involving about 80,000 cu. yds. concrete, on proposed extension of this road on the opening between Long Key and Conch, Ky. (Advertised, Engineering News.)

HANNIBAL & KIRKSVILLE.—This company will build a line, to be operated either by steam or electric motive power, from Hannibal, Mo., to Kirksville, about 80 miles.

HOUSTON, BEAUMONT & RED RIVER.—The Houston, Beaumont & Red River Construction Co., of Houston, Tex., will build this railway from Houston, Tex., to Alexandria, La. It will be about 204 miles long.

HOPKINSVILLE BELT LINE.—Incorporated by H. M. Dalton, Dr. J. B. Jackson, L. C. Cravens, Wm. R. Wicks, J. B. Russell, J. M. Renshaw and M. O. Mason, of Hopkinsville, Ky., to build a belt line in that city. Capital, $100,000. The line will connect the railroads entering Hopkinsville.

INTERMOUNTAIN R. R.—Company has been incorporated in Kentucky to build a railroad 14 miles long, from a point in Martin County to Pigeon Roost, on Wolf Creek. The incorporators are John F. Hager and M. F. Fleming of Ashland, Ky., and E. C. Lyon of Caldwell, N. J.

LESTER & OUACHITA VALLEY.—Incorporated in Arkansas to build a railroad from Lester to Rosston, 24 miles. Capital, $102,500. Incorporators: F. R. Pierce, of St. Louis, Mo.; A. P. Green, of Lester, Ark.; L. S. Parkman, W. K. Ramsey, W. W. Brown and J. T. Sifford, all of Camden, Ark.

LEHIGH & NEW ENGLAND.—We are informed that surveys are completed for 14-mile line from Pine Island to Campbell Hall, N. Y., via Goshen. W. J. Young, Ch. Engr., Pen Argyl, Pa.

MICHIGAN CENTRAL.—The Canada & Michigan Bridge & Tunnel Co., and the Michigan & Canada Bridge & Tunnel Co., are to be taken over by a new company to be known as the Detroit River Tunnel Co., which will be organized under the laws of Michigan. This company will be capitalized at $4,000,000. It is expected that the work of constructing an $8,000,000 tunnel for the Michigan Central Railroad under the Detroit River at Detroit, Mich., will be begun about Oct. 1. Noted on June 1.

MILWAUKEE, PEORIA & ST. LOUIS.—A company has been incorporated in Illinois under this title, to build a railroad from Peoria through the counties of Peoria, Tazewell, Woodford, Marshall, Putnam, Bureau, Lee, Ogle and Winnebago, to Rockford. Capital stock, $10,000. Incorporators: F. B. Johnston, T. M. Hearn, William Burry, T. G. Vent and E. D. Frazer, of Chicago.

McMURRAIN & NEW LONDON.—Incorporated in Arkansas to build a railroad from McMurrain, on the St. Louis, Iron Mountain & Southern Ry., to New London, two miles. Incorporators: George S. Miles and G. F. Miles, of McMurrain; J. J. Jones, of Eldorado; and A. C. Ramsey, of St. Louis, Mo.

MINOT, BISMARCK & SOUTHWESTERN.—Company has incorporated in North Dakota to build a railroad from Minot, south about 110 miles. Capital stock, $500,000. Incorporators: T. P. Kulaas, L. L. Davis, C. J. Brunner, John Ehr, O. M. Champlin, all of Minot, N. Dak.

MISSISSIPPI.—It is reported that the Scanlan-Brooke Lumber Co., of Duluth, Minn., has purchased 50,000 acres of timber land near Amite City, Miss., and that a lumber road will be built to develop the section.

NORFOLK & CAROLINA COAST.—Engineers will be put in field at once, according to a Norfolk, Va., report, to run surveys for this proposed railroad. It was noted last week under title of Virginia & Carolina Coast. It is estimated that cost of construction will average about $12,000 a mile.

NORWAY & WESTERN.—This company has been incorporated in Maine to build from Norway, Me., to East Stoneham, through Waterford, Albany and Stoneham, 21 miles. The capital is $150,000. The directors are F. H. Noyes, of Norway; W. G. Rand, of Boston; Jonathan Bartlett, of Stoneham; L. H. Burnham, of Albany; and W. H. Kilgore, North Waterford. The road, according to the Maine laws, may be operated either by steam or electricity.

OUACHITA & NORTHWESTERN.—Charter has been applied for in Louisiana to build a railroad from Clarke, in Caldwell Parish, to Weston, about 30 miles. Capital stock, $200,000. Incorporators: J. B. White, J. D. Riddelf, James T. Whitehead, W. S. McKinney, Ben Herr, Fred C. Broadway and C. E. Slagle.

PINE BLUFF & SOUTHERN.—We are informed that no surveys have been made or officers elected. The road will be constructed from Pine Bluff, Ark., to Star City, 26 miles. J. B. Johnson, Secy. Pine Bluff Board of Trade, is an incorporator.

PENNSYLVANIA RY.—The Pennsylvania Co. is planning a large classification yard at Bedford, O.

PITTSBURG & LAKE ERIE.—Plans are said to be completed for an extension of third and fourth track on main line between Aliquippa and Shannopin, Pa. J. A. Atwood, Pittsburg, Pa., is Ch. Engr.

PERCY, LAKE PROVIDENCE & YAZOO.—Company has made application for a charter in Mississippi to build a railroad from Percy via Grace, Mayersville and Ben Lomond to Valley Park, about 50 miles. Incorporators: James Robertshaw, J. M. Cashin and H. C. Watson, all of Greenville, Miss.

REPUBLICAN MOUNTAIN & GRAY'S PEAK.—C. H. Green, W. N. W. Blayney, P. B. Tolles, J. A. Curran, F. J. Smith, C. K. Wolfe and Arnold Barmettler, of Denver, Colo., are interested in company which will construct a cog-wheel line up Republican Mountain, Colo.

SALINE BAYOU.—Incorporated in Arkansas to build a railway 14 miles in length from Oakleaf, on the St. Louis, Iron Mountain & Southern Ry., to a point near Joan. Incorporators: Louis Warner and F. R. Pierce, of St. Louis, Mo.; W. B. Ayers, of Strand, Ark.; Dougald McMillan and J. H. McMillan, or Arkadelphia, Ark.

SUWANEE & SAN PEDRO.—An extension may be built to Fernandina, Fla. Frank Drew is Pres. and Gen. Mgr., at Live Oak, Fla.

SYLVANIA & SAVANNAH RIVER.—Company has been chartered by P. A. Mock, L. H. Hutton Co., H. S. White, J. W. Overstreet, A. S. Anderson, H. A. Boykin, J. A. Ennis, R. L. Smith, T. A. Mock, J. R. Wells, G. M. Overstreet, Jack C. Reddick, J. J. Morel and W. I. Cooper. Company will build a line from Sylvania for a distance of approximately 20 miles to a point on the Savannah River, between Hudson's Ferry and Poor Robin Landing, in Screven County. The capital stock of the company is $25,000, but the incorporators ask the right to increase to $100,000 by a majority vote of the stockholders.

SAGINAW & OUACHITA RIVER.—Incorporated in Arkansas to build a railroad from Saginaw Junction, Hot Springs County, to Saginaw, three miles. Incorporators: A. J. Neimeyer, of St. Louis, Mo.; L. W. Downs, Frank Neimeyer, E. L. Neimeyer and F. M. Houston, of Saginaw, Ark.

STANDARD & BATON ROUGE.—Charter has been filed in Louisiana to build a railroad from Monroe through Ouachita and Caldwell parishes to Standard in Catahoula Parish; thence south through portions of Grant and Rapides parishes to Cheneyville. The officers and directors are: J. B. York, Pres.; J. F. Rutherford, vice-Pres.; C. J. Samtag, Secy. and Gen. Mgr.; E. T. Lamkin, Gen. Atty.; D. H. Duncan, Robert York and R. L. Rutherford. Principal office, Monroe, La.

SOUTHERN PACIFIC.—A press report from Reno, Nev., states that contract has been let for five tunnels through the Sierra Nevada Mountains. Cost, $25,000,000. W. Hood is Ch. Engr., San Francisco, Cal.

VIRGINIA, MISSOURI & WESTERN.—J. Alden Gaylord & Co., 15 Broad St., New York, are said to be promoting agents for Belgian and New York capitalists that are interested in plan to build a railroad from Norfolk, Va., to San Francisco, 2,684 miles long. J. R. Marsh is named as Ch. Engr.

ZACHARY & NORTHEASTERN.—Incorporated in Louisiana to build a railroad from Zachary, northeast, to Pride. Capital stock, $25,000. Incorporators: A. L. Tucker, E. F. Tucker, W. Y. Millican, T. W. Millican, John H. Millican, Joseph Millican and John H. Tucker; W. Y. Millican is Pres.; Thomas W. Millican vice-Pres., and John H. Millican, Secy. and Treas. Headquarters, Zachary, La.

## ELECTRIC RAILWAYS.

*The names of parties awarded contracts are printed in capital letters.*

CAMBRIDGE, MASS.—We are informed that the extension of the Leominster, Shirley & Ayer St. Ry. line from Ayer to Cambridge is "in contemplation only." W. W. Sargent, Fitchburg, Mass., is Supt. Noted on May 11.

THOMASTON, CONN.—Edward T. Canfield, Atty., 847 Main St., Hartford, is promoting the Thomaston Tramway Co., which proposes to build a line seven miles long, from Thomaston to Waterville, Conn. We are advised that the matter is still before railroad committee of the legislature regarding company's charter.

WATERBURY, CONN.—N. R. Bronson, Atty., is securing right-of-way for the proposed Waterbury-Woodbury trolley line. Engineers are now in the field.

ROCKVILLE, CONN.—The Rockville, Broad Brook & East Windsor Street Ry. Co., recently chartered, is securing right-of-way and additional franchises in towns along line. Thomas C. Perkins, of Hartford, Conn., is the promoter. Council has been petitioned to extend the time limit for building the road for two years.

ILION, N. Y.—A trolley line, to be built from Ilion to Sydney, 57 miles, is planned. Judge McKoon is interested. It is estimated that to build the railway it would cost $25,000 a mile. Funds to build will be subscribed by villages along projected route.

CATSKILL, N. Y.—The Upper Hudson Electric & R. R. Co., of Newburgh, has been incorporated to operate an electric railway from terminus of the United Traction Co., of Albany to Catskill, 25 miles. Capital, $500,000. Luke Gillespie, J. M. Sheehan, of Newburgh; Eugene Wolfe, F. W. Titus, of Athens; T. M. Sheehan, of Coxsackie; N. W. Dalton, of Thompsonville, Conn., and F. J. Curnick, 35 Broad St., New York, are named as directors.

NEW YORK, N. Y.—The New York & Harlem R. R. Co. (New York Central) has filed final papers in connection with the new four-track rapid transit electric system between the Grand Central Station, in New York, and White Plains, N. Y. Company will start work soon. There will be spent about $800,000 in Mount Vernon on improvements.

ROCHESTER, N. Y.—E. J. Wilcoxen, Supt. of the Rochester & Sodus Bay Ry. Co., accompanied by Harry O. Button, of Sodus Point, and Warner C. Mills, of Sodus, recently inspected route of the proposed line from Wallington to Syracuse via Resort and Wolcott, connecting with the Syracuse, Lakeside & Baldwinsville Ry.

FREEHOLD, N. J.—Houston Fields, of Monmouth, is reported to plan construction of an electric line to Asbury Park from Freehold.

GARFIELD, N. J.—Samuel Blatt, of Passaic, it is said, will apply for a franchise to operate an electric street railway line in Garfield borough.

MOUNT PLEASANT, PA.—Council has passed ordinance granting a franchise to the Uniontown & Monongahela Electric Ry. Co., a constituent company of the West Penn Railways Co. It is reported that a new line to Greeneburg, connecting Hecla and Youngwood, will be built.

BALTIMORE, MD.—George Warfield, Chn. city council committee on railways, has announced that ordinance granting certain rights to the Washington, Baltimore & Annapolis Electric Ry. Co. will not be considered until meeting of committee in September. Fully noted last week.

NORFOLK, VA.—A company has been incorporated which will build and operate an electric road between Ocean View and Pine Beach. Capital stock, $25,000. The name of the new company will be the Ocean View & Pine Beach Railway Co. The officers are H. L. Page, Pres.; B. W. Leigh, vice-Pres., and M. C. Elliott, Secy. and Treas.

FAIRMONT, W. VA.—The Fairmont & Clarksburg Traction Co. has awarded contracts to JOSEPH FUCCY for the first, and the FERGUSON CONSTRUCTION CO. for the second, third and fourth sections of the extension to Clarksburg.

HENDERSONVILLE, N. C.—The Appalachian Interurban Electric Railway Co. has been organized at Hendersonville with a capital stock of $125,000. The officers are W. A. Smith, Pres.; F. M. Stearns, Columbus, N. C., vice-Pres.; J. W. Wofford, Secy.; J. Williams, Treas. This line will connect Hendersonville and Asheville, Hendersonville and Gaffney, S. C., via Chimney Rock, Rutherfordtown and Columbus. Work will begin at an early date.

JACKSONVILLE, FLA.—The Jacksonville Suburban & Seashore Railroad Co. has been organized in this city for the purpose of constructing an electric railway to Pablo Beach. It is the intention of the new company to commence construction of line to the ocean front within the course of the next few months. John D. Lawrence is Pres.; William A. Riddle, Secy. and Treas.; John D. Lawrence, William A. Riddle, M. H. Bidez, William T. Simmons, A. B. Humphreys, D. P. Myerson, Jr., and William S. Ferrell, directors. Capital is $300,000.

MAGNOLIA, MISS.—A franchise has been granted Judge J. H. Price and others to construct and operate an electric railway line at Magnolia, and to build a line between Magnolia and Sumter via Fernwood, Whitetown and McComb.

JACKSON, MISS.—The Power Co. will apply to railway franchise. W. H. and J. K. Hair, Ch. Eng.

DEFIANCE, O.—The Adrian, Ann Arbor & has been incorporated to points given in the title are: W. W. Campbell, C. Miller, N. P. Penrod, K. F. J. Spencer.

WILMINGTON, O. — Jamestown & South Solon ported to have been inco Wilson, B. F. Patterson, Denver, S. G. West and posed to build a line fr Jamestown and South Solon be made with the Springfi Traction Co.'s line for Sp

CLEVELAND, O.—We money has been appropriat one mile of road from K infirmary farm. Surveys made. The work has not noted on May 11, city wil than $12,000 for construct

HUNTINGTON, IND.—Th land & Matthews Traction ated to build a traction lin ington, Van Buren, Upland Capital stock, $25,000. Dire S. Stout, John A. Shafer, D Charles W. Reed, Hanford F. Knowlton and Andrew V

INDIANAPOLIS, IND.—Ch ton, Traction Terminal Bld promoter of the Indianapolis Line Traction Co., is reported that the line, when comple Indianapolis over an elevated of construction will begin will run through the following etteville, Kirkland, Sheridan, Beard, Flora, Studebaker, Idaville, Francisville, Wheatland, Medaryville, Crown Point, Hammond and

GOSHEN, IND.—The Huntington, City & Northwestern Traction Co. voted a $25,000 subsidy in Elkhart Township. The company now has over $100,000 in subsidies voted.

LAPORTE, IND.—In accordance with an order of sale made by Federal Judge A. B. Anderson, Edward Daniels, of Indianapolis, master in chancery, recently sold at public sale in this city the interurban line between Laporte and Michigan City, owned by the Chicago & South Shore Railway Co., as a result of foreclosure proceedings brought by the Royal Trust Co., of Chicago, trustees for $362,000 of bonds. The road was bid in by T. L. Spence, of Milwaukee, and A. D. Mallory, of Batavia, Ill., representing the bondholders' committee, at $450,000. There were no other bidders. Noted on May 18.

BLUFFTON, IND.—Bids are asked until June 24, for grade and fence work for the Marion, Bluffton & Eastern Traction Co., between Marion, Ind., and Bluffton. F. F. Van Tuyl is Engr. R. F. Cummins, Secy.

BATTLE CREEK, MICH.—B. P. Legeare, of New York; A. L. Register, of Philadelphia; C. J. Austin and E. C. Corey, of Battle Creek, are said to be promoting an interurban line between Battle Creek and Lansing.

BAY CITY, MICH.—General contract for building the Detroit & Bay City Traction Co.'s line has been given to the ROSS CONSTRUCTION CO., of Chicago. E. H. Whitcomb, of Davenport, Ia., is interested.

ROODHOUSE, ILL.—The Roodhouse & Virden Railway Co., with principal office at Roodhouse, has been incorporated to construct an electric railroad from Roodhouse through Scottville and Modesto to Virden. The incorporators and directors are Charles W. Payne, of Roodhouse; James Walker, of Scottville; James A. Fletcher, of Modesto; Henry C. Simmons, of Virden, and Burke Vancil, of Springfield.

CHICAGO, ILL.—Specifications and diagrams and forms of proposals relating to the construction and operation of municipal street railway system in Chicago are on file at New York office of Engineering News. Bion J. Arnold, Marquette Bldg., is Consult. Engr. Noted fully last week. Bids are advertised in Engineering News, to be received July 1.

EAST ST. LOUIS, ILL.—We are informed that the Alton, Granite City & St. Louis Traction Co. has petitioned the city council for right-of-way on Eighth St., from the B. & O. Ry to St. Clair Ave., where a connection will be made with the East St. Louis & Suburban Ry. This company had previously asked for a franchise to operate its line on Seventh St., from the points above mentioned, but lately changed its route to Eighth. St. J. T. White & Co., 49 Exchange Pl., New York, are Engrs. L. C. Haynes, East St. Louis, is Secy.

GREEN BAY, WIS.—The Green Bay Traction Co. has been incorporated with capital stock of $1,000,000 by A. M. Murphy, Pres.; W. P. Wagner, vice-Pres., and B. L. Parker, Secy., of the Fox River Elec. Ry. & Power Co. The new company will be a consolidation of the Fox River Co. and the Knox Construction Co., connecting De Pere, Little Rapids, Wrightstown and Kaukauna. George W. Knox, Fisher Bldg., Chicago, is Purchasing Agent and Gen. Mgr.

COUNCIL BLUFFS, IA.—E. and J. W. Blanchard, Engrs., have run preliminary surveys for an electric railway line which is to be built east from this city, 28 miles.

DUBUQUE, IA.—Right-of-way is being secured for the Dubuque & Wisconsin Interurban Ry. between Dubuque and Platteville via Cuba City. The directors are: Hedley, Pres.; H. H. Bilsh, vice-Pres.; C. A. Noyes, Secy.-Treas.; W. B. Baumgartner, M. Tschirgi, E. M. Healey and Chas. Falkenhalner.

OSKALO... IA.—Citizens have raised $150,000 in subscriptions to build an interurban road... Buxton and will promote it as a private enterprise. Messrs. Francis and Sullin, of Louis, recently offered to build the road for a donation of $100,000. The deal included Oskaloosa and Ottumwa electric plant... $65,000 had been subscribed when the options expired. Ottumwa refused to ... an extension and the project was discontinued.

ABILEN... KAN.—The Golden Belt Electric Ry. Co. ... be incorporated to build a line from Abilene to Fairbury, Neb., it is reported. It will be 110 miles long. Estimated cost is $1,500,000. Towns through which it will pass will be asked to vote $2,000 a mile for construction. The officers of the road are: J. C. Morrow, Pres.; J. E. Brewer, ..., and Geo. W. Hanna, Secy. The incorporators are Chas. A. Southwick, F. L. W... Cameron, E. H. Swenson, U. E. Need and ... W. Hanna, of Clay County; J. E. Brewer ... G. W. Hurd, Geo. A. Rodgers, Jos. White ... and C. C. Wyant, of Dickinson County; ... Morrow, Reuben Vincent, J. S. Alspaugh ... L. Vincent and H. Yoder, of Washington County.

ORAN... O.—The Oran Electric Railway Co., capital $50,000, has been chartered. Incorporators: M. G. Gresham, George Metz, T. A. Cooley; P. P. Marshall, W. L. Tanner, J. L. Githens, W. H. Stubblefield, Jr., W. H. Wescoat, Caleb Matthews and M. Helmbacher.

HANNIBAL, MO.—A company will be organized with capital of $7,500 to build an electric railway between Hannibal and Kirksville. Estimated cost of construction is placed at $1,500,000. W. A. Munger, Robert Robinson, P. W. Hawes, A. R. Levering, Capt. Hawkins, Judge Albertson and H. C. Leamon, of Hannibal; Frank W. Gibbs, of Kirksville; Messrs. Orton and Carter, of the Hannibal & Quincy Interurban line, are named as promoters.

DALLAS, TEX.—J. Mercer Carter, Mgr. of the General Contracting & Equipment Co., of Dallas, states that the Black Belt Electric Railway & Power Co. has practically concluded arrangements to build electric railways and power plants connecting several towns and cities in the northern part of Texas. The line will be about 340 miles long, extending from Dallas to Terrell, Greenville, Bonham, Denison, Whitesboro, Gainesville, Sanger, Denton, Grapevine and back to Dallas; branches from Grapevine via Fort Worth and Weatherford to Mineral Wells, and from Denton to McKinney. Capital, $10,000,000.

DURANT, IND. T.—Dr. James L. Shuler is reported to have applied for a franchise to construct and maintain a street railway system in this city.

CHICKASHA, IND. T.—Council has granted a franchise to Julius E. Wright, S. Howard Leach and J. A. Bohart to build an electric railway in this city. The ordinance granting the franchise provides that a $500 bond be given by the company within 60 days, and work be begun within six months and that at least four miles of railroad be completed and in operation within fifteen months. The company plans to run the road from Chickasha to several other nearby towns and eventually to Oklahoma City.

SEATTLE, WASH.—The Seattle-Everett Interurban Railway Co., of Seattle, has been incorporated with a capital of $1,750,000 by F. E. Sander, N. B. Sander and George W. Albin. With these later articles of incorporation was filed a decree of the superior court of King County dissolving an earlier corporation of the same name.

DAVENPORT, WASH.—The Big Bend Traction Co., which proposes to construct a line from Davenport northward to the Columbia River, has been organized by John Sawyer, J. W. Fry and Charles Turner.

W. H. Plummer, promoter of the Spokane & Big Bend Traction Co., has stated to the Davenport Board of Trade that $100,000 of the stock had been subscribed in Spokane, and that if Lincoln County would take the same amount the road would be bonded and work begun soon.

SAN FRANCISCO, CAL.—John Martin, vice-Pres. of the California Gas & Electric Corporation, of San Francisco, will extend the Nevada County Traction Line to Marysville upon condition that certain right-of-way is donated.

LEWISTON, IDAHO.—It is reported that the Spokane & Inland Electric Line Co., which is now constructing a line from Spokane to Moscow, Idaho, will ultimately build an extension to Lewiston.

LONGUEUIL, QUE.—The Longueuil Tramways Co. has been incorporated with Jean Girouard as Pres., Victor Pigeon as vice-Pres., and Henri St. Mars as Secy.-Treas. The intention of the company, it is said, is to commence operations at once. Individual motor car system may be adopted.

## LIGHT AND POWER PLANTS.

***The names of parties awarded contracts are printed in capital letters.***

TEMPLETON, MASS.—It is reported that Percival Blodgett, George W. Bourn, J. A. Stanley and Herbert E. Lowell, of Templeton, and Henry J. Wright and Herbert H. Hammond, of East Templeton, are interested in project to organize a company to furnish light and power here.

GLENDALE, MASS.—The Monument Mills Co., of Housatonic, Mass., will develop water power of Housatonic River at Glendale. Barnes & Farnham, of Pittsfield, are Engrs. A dam will be built of stone and concrete. Estimated cost of project is $100,000.

GREAT BARRINGTON, MASS.—The Berkshire Street Ry. Co., has plans drawn for a 60-ft addition to its car house and power station.

SOUTH NORWALK, CONN.—Contract for electrical equipment for the city electric plant has been awarded to the FORT WAYNE ELECTRIC WORKS, of Fort Wayne, Ind., at $3,700. Contract for motive power equipment was awarded to the AMERICAN DIESEL ENGINE CO., of 11 Broadway, New York, at $16,000. A. E. Winchester is Mgr. and Supt. of municipal plant.

MOUNT VERNON, N. Y.—Henry Bonnard Bronze Co., 420 West 16th St., New York, is building a new power house in Mount Vernon and will require boilers, engines, motors, generators, switchboards and electric wiring.

NORTH TONAWANDA, N. Y.—At a meeting of the Board of Aldermen on June 13, it was decided to reject the bid of the Tonawanda Power Co., for furnishing electric light for the city and readvertise for bids that will permit gas as well as electric companies to submit bids.

KEARNEY, N. J.—As advertised for in Engineering News, bids were received on June 14, for erecting a municipal electric lighting plant. Bids received were as follows: Power house and foundations, Sanford & Harris, $17,950; Hedden Iron Co., $19,000; V. J. Hedden & Son Co., 1 Madison Ave., New York, $18,775. Engines: Providence Engineering Works, $11,200; Ball & Wood Co., $12,816; A. L. Ide, $5,570; McKenzie, Quarrier & Ferguson, 114 Liberty St., New York, $10,995; Edward Burnham, $9,876; Robb-Mumford Boiler Co., 11 Broadway, New York, $9,990; Lake Erie Boiler Works, $15,590. Equipment and power house: Crocker-Wheeler Co., 39 Cortlandt St., New York, $4,814; Stanley Electric Manufacturing Co., $6,720; E. V. Wingate, $5,450. Boilers and steam fittings: D. C. Seymour, $9,089; Earl C. Cook, $10,251; A. D. Granger, $10,800. Chimney: Keeler Company, $2,000; D. C. Seymour, $2,000; F. E. Berhom, $2,426; A. D. Granger, $2,762; Lake Erie Boiler Works, $3,250. Poles and Wires; C. E. Hood, $28,076; Electric Motor and Equipment Co., $21,735; Peet, McAnerney & Powers, 225 Fourth Ave., New York, $24,445. Lamps: Stanley Electric Co., $1,382; Westinghouse Manufacturing Co., $2,900; Adams Co., $1,656.

SHIPPENSBURG, PA.—We are advised that council has created a special committee, with S. A. Angle, Chn., to investigate the cost of installing and operating a municipal electric light plant. J. C. Rummel is Burgess.

MANCHESTER, VA.—The Pintsch Gas Co. will erect a gas plant here at a cost of $20,000. J. J. Blake represents the company.

GRAHAM, N. C.—The Graham Water & Electric Co. has incorporated with $100,000 capital stock to operate water-works and electric light plant. Incorporators are H. L. Miller, of Morganton, N. C.; C. P. Hartwell and M. F. Frey, of Washington, D. C.

COLUMBIA, S. C.—The plants of the Columbia Water Power Co. and the Columbia Electric Street Ry., Light & Power Co. may be combined if a merger of these interests is effected. If plans carry it is proposed to build an auxiliary power plant and improve present plants. P. I. Welles is Gen. Mgr. of the Street Ry. Co. and W. M. Shannan, Ch. Engr. of the Water Power Co., both at Columbia.

MONTICELLO, GA.—The city has voted to issue bonds for the erection of an electric light plant.

PENSACOLA, FLA.—Bids are asked until 11 a. m., July 15, for constructing a brick and steel building for central power house, at Navy Yard. Mordecai T. Endicott, Ch. of Bureau Yards and Docks, Washington, D. C. Specifications for this work are on file at New York office of Engineering News.

BLANCHE, ALA.—As noted on June 1, H. T. Henderson, Ch. Engr. of the Animus Canal, Reservoir, Water, Power & Investment Co., Durango, Colo., has plans for development of the water power of Little River above Blanche. A reservoir several miles in length to have a capacity of 15,000,000,000 gallons of water will be built, the water to flow through a flume of brick and cement from the reservoir to power house. It is proposed to develop about 18,000 HP., which will be transmitted by electricity to Gadsden, Anniston, Alabama City, Attalla and other nearby manufacturing towns. Estimated cost, $1,000,000 to $1,500,000.

KNOXVILLE, TENN.—The contract for lighting this city expires on July 1. Bids may be submitted for lighting the city streets with either gas or electricity.

CAMPBELLSVILLE, KY.—The Campbellsville Electric Light Co. is in the market for full outfit of machinery and supplies for electric light plant. Dr. J. L. Atkinson is Pres., J. R. Davis is Secy. and B. S. Kincart, Supt. Capital is subscribed.

NEWPORT, KY.—Four bids were received for purchase of a 20-year gas franchise. They were submitted by Ben. Bramlage, Harvey Meyers and James Young; L. C. Widrig, John Hodge and Otto Wolff; and the Union Light, Heat & Power Co. The bid of Ben. Bramlage, represented by T. P. Carothers, Atty., offered lowest rate, and, it is reported, will be accepted.

YOUNGSTOWN, O.—Bids are asked by Board Public Service until July 5 (readvertisement), for one electric light plant complete for water-works pumping station and filter plant. G. T. Prosser, Clk. (Advertised, Engineering News.)

STREATOR, ILL.—Council has appropriated $30,000 for a municipal lighting plant.

MELROSE, MINN.—See under Water-Works.

RIO, WIS.—The Electric Light Co., O. Ingram, owner, is having plans and specifications prepared, we are informed, for one 60-in. turbine, one 75-KW. A. C. machine with step up and step down transformers, lines, etc. The Milwaukee Engineering Co., Milwaukee, Wis., is Engr.

SUMNER, IA.—L. L. Stewart, of Omaha, Neb., has been awarded a 20-year franchise for a system of electric lighting for this town.

COLUMBUS, TEX.—The Columbus Light Co., capital $10,000, has been chartered to supply light, power, etc. Incorporators: J. W. Towell, Carey Shaw and Josiah Shaw.

DALLAS, TEX.—The Dallas Gas Co., capital $1,000,000, has been chartered to manufacture gas and furnish electric lights, heat and motor power. The incorporators are: Henry R. Wilson, Frank Tilford, J. C. O'Connor and H. A. Kahler, of New York, and J. E. Schneider, E. O. Tenison, W. G. Berg, Thomas Shearon and W. R. Styron, of Dallas. Company has been granted right to make improvements to recently acquired system of the Dallas Gas & Fuel Co., which will cost about $200,000.

ARDMORE, IND. T.—The Ardmore Electric Light Co. will add new machinery to its plant, at cost of $35,000, it is reported.

SALT LAKE CITY, UTAH.—Council has passed a substitute ordinance granting a consolidation and extension of the franchises of the Utah Light & Railway Co. for 45 years, from Jan. 1, 1905, or until Jan. 1, 1950.

## BRIDGES.

***The names of parties awarded contracts are printed in capital letters.***

HAVERHILL, MASS.—It is stated that the Essex County Commissioners will call for new bids for construction of bridge over Merrimac River at Haverhill.

HACKENSACK, N. J.—Bids are asked by Board of Chosen Freeholders until June 26 for construction of two concrete-steel culverts. A. H. Ackerman, Chn.

PATERSON, N. J.—Bids will be received by Board of Chosen Freeholders of Bergen and Passaic Counties until June 29, 4 p. m., for completion of three-span plate girder bridge across Passaic River; est. cost, $10,000. Fred. Beggs, Chn., Paterson.

PATERSON, N. J.—Bids will soon be received for construction of Killman St. bridge—180-ft. steel truss—across Passaic River. Est. cost, $32,000. E. Paul Van Wyck, Chn., Paterson, can inform.

RUTHERFORD, N. J.—Bids received for reconstruction of drawbridge were rejected and new bids will be asked for about the first of July. The lowest bid was $15,000. Geo. Botbyl, Clk., Paterson.

SEABRIGHT, N. J.—Contract for constructing bridge over Deal Lake has been awarded by Board of Chosen Freeholders to the NEW JERSEY BRIDGE CO., Fuller Bldg., New York, for $8,350.

WEST CHESTER, PA.—Sealed proposals will be received by County Commissioners until June 27, 11 a. m., for the erection of a steel bridge over French Creek.

READING, PA.—Plans and specifications are on file in office of Engineering News, 220 Broadway, New York, for bridge over Saucony Creek. Bids to be opened June 23, as advertised in Engineering News.

HARRISBURG, PA.—The following bids were received June 13 by Board Public Grounds and Buildings for rebuilding substructure and superstructure of bridge over Susquehanna River between Berwick and Nescopec: Lane Bridge Co., $265,000; C. H. Reimard, $222,981; W. H. Stebbins, $218,000; Peter Keefer, $227,000; Eyre Const. Co., Arcade Bldg., Philadelphia, $221,950; Horn & Nef, $219,000; Penn Bridge Co., Beaver Falls, Pa., $216,867; YORK (Pa.) BRIDGE CO., $209,500 (awarded contract); Alleger & Co., $220,000; King Bridge Co., Cleveland, O., $236,278; Champion Bridge Co., Wilmington, O., $280,776; Variety Iron Works, Cleveland, O., $268,000; Oswego (N. Y.) Bridge Co., $221,600; Groton Bridge Co., $222,000; Canton (O.) Bridge Co. $224,200; Nelson & Buchanan Co., $273,000; Berlin (Conn.) Const. Co., $244,900; T. H. Prior & Sons, $245,000; Jacob Weidelich, $227,500; Old Dominion Bridge & Const. Co., $270,000; Brackett Bridge Co., $275,000; Jno. P. Cowing, $285,500; Belmont Iron Works, $257,80?; Whalen Const. Co., $230,000; Ellory & Colby, $214,000; P. E. Lane, $229,000; Riverside Bridge Co., $248,960; Pennsylvania Steel Co., Philadelphia, $229,890.

READING, PA.—Bids are asked by H. F. Livingood, County Controller, until 10 a. m., June 30, for construction of Eagle Point bridge and Glendale bridge. (Advertised, Engineering News.)

BALTIMORE, MD.—It is stated that the Steel Concrete Const. Co. has been awarded contract by the United Railways & Electric Co., for the erection of a concrete bridge across Gwynn's Falls at Frederick Ave.

WASHINGTON, D. C.—Contract for constructing concrete bridges for this District has been let to CRANFORD PAVING CO., Washington, D. C., for $3,558. Bids were received June 15.

SPARTANBURG, S. C.—Bids are asked by County Commissioners until July 5, 11 a. m., for the erection of two bridges—one over South Pacole River, near Campobello, and the other over Lawson's Fork. F. C. West, County Clk.

CARTERSVILLE, GA.—County Commissioners awarded contract for constructing bridge over Etowah River to the AMERICAN BRIDGE CO., of Atlanta, Ga. L. P. Gaines, Chn., Cave, Ga.

JACKSONVILLE, FLA.—Bids will be received until July 5, it is stated, for construction of two steel bridges. Roland Woodward, Engr.

FULTON, MISS.—The Board of Supervisors has let contract for building steel bridge across Tombigbee River on the Fulton and Tupelo Road to the NASHVILLE BRIDGE CONST. CO., of Nashville, Tenn. Their bid was $5,343. The bridge will consist of one 150-ft. span across the main channel of river and one 60-ft. span besides a wood approach of 165 ft. on the east side of river and a wood approach of 50 ft. on west side.

CLARKSDALE, MISS.—Board of Supervisors will issue $100,000 of bonds for building roads and bridges.

PIKEVILLE, KY.—Bids are asked by Board of Bridge Commissioners until July 6 for a concrete substructure and steel superstructure, 150-ft. span, c. to c., 16-ft. roadway. John McDyer, Engr., Catlettsburg, Ky.

CLEVELAND, O.—Ordinance has been introduced in Council asking that $25,000 be appropriated to build a bridge over W. & L. E. tracks at Brookside Park. Wm. J. Carter is Cy. Engr.

DAYTON, O.—The contract for constructing a concrete steel bridge over Great Miami River at Washington St. has been awarded to FRANK J. CULLEN, of Chicago, Ill., for $116,810. Previously noted.

LIMA, O.—Bids are asked by Geo. Feltz, County Audr., until June 29 for construction of a high truss iron bridge over Riley Creek in Richland Township. C. S. Craig, Engr.

CLEVELAND, O.—The county has been asked to assist in the erection of the new viaduct connecting Fleet St., Harvard St. and Washington Park. One end of the bridge will be outside of city. The city will pay about $40,000, property owners about $7,000, and county will be asked to pay about $25,000. The matter was referred to county surveyor, who will act with city engineer in preparing plans and specifications.

MEDINA, O.—Brookville Bridge Works, Brookville, O., at $2,205, was low bidder June 19 for building bridge over Rocky River.

MUNCIE, IND.—Contracts for seven bridges were let by County Commissioners June 7 to the INDIANA BRIDGE CO., of Muncie, to be erected in different parts of county this summer. Total cost, $11,100.

INDIANAPOLIS, IND.—Bids are asked by County Commissioners until June 27, 10 a. m., for construction of bridge over White River at Emrichsville. Cyrus J. Clark, County Audr.

FORT WAYNE, IND.—Bids are asked by County Commissioners until June 28 for construction of steel bridge, 2 spans, 105 ft. each, across Maumee River; also steel bridge over St. Mary's River, one span, 170 ft. J. L. Smith, County Audr.; O. B. Wiley, Engr., Ft. Wayne.

LOGANSPORT, IND.—The NATIONAL CONST. CO., through its representative, E. H. Lee, was awarded contract June 7 by County Commissioners for building bridge over Pipe Creek, at $3,784.

PONTIAC, MICH.—Bids for seven bridges over Clinton River in this city were submitted to Council June 5, the National Bridge Co., of Indianapolis, Ind., and a local bridge building company being the lowest bidders, their bids on the seven bridge aggregating $11,500.

WHEELING, ILL.—Contract for constructing a reinforced concrete arch bridge over Des Plaines River in Wheeling Township has been awarded to H. V. SNYDER & SON, 814 Chamber of Commerce Bldg., Chicago, for $7,000.

PEORIA, ILL.—Bids are asked by Highway Commissioners until June 28, 2 p. m., for construction of concrete pier under Upper Free bridge across Illinois River at Bridge Road; est. cost, $10,000. Fred. B. Tracy, Clk.

CARTHAGE, ILL.—The loss in bridges to this county from a recent flood will amount to $50,000.

CHICAGO, ILL.—It is stated that an appropriation of $758,000 has been made by the Erie R. R. Co. for rebuilding bridges and culverts. The largest single appropriation is one of $150,000 for bridge over tracks at Chicago yard, a structure 66 ft. long and 435 ft. wide. F. L. Stuart is Ch. Engr., New York.

RACINE, WIS.—The following bids were received June 17 for constructing a bridge at Main St.: Milwaukee (Wis.) Bridge Co., $104,000; Edward Gillen, Racine, $103,420; Jackson & Jarbitt, Chicago, Ill., $123,016. P. H. Connolly, Cy. Engr.

WEST DULUTH, MINN.—It is stated that the Northern Pacific R. R. Co. will erect a steel bridge over Jenewold St. subway. E. J. Pearson is Ch. Engr., St. Paul, Minn.

CASPER, WYO.—Bids are asked by U. S. Reclamation Service, Casper, until June 29, 3.30 p. m., for construction of a pile bridge about 350 ft. in length across North Platte River, involving about 2,500 lin. ft. of seasoned pine piling; 40,000 ft. B. M. Oregon fir lumber and 2,000 lbs. nails, spikes, etc. Chas. E. Wells, Engr., Casper.

EVERETT, WASH.—ALEX. THOMPSON has been awarded contract for rebuilding county bridge at Silvana for $4,525, and the PUGET SOUND BRIDGE & DREDGING CO. will build new bridge at Hildebrand and complete the one at Oso for $5,115.

WEAVERVILLE, CAL.—Bids will be received by County Commissioners until July 6 for construction of a combination bridge, one 140-ft. span, over Trinity River near Lowden's Ranch. Est. cost, $6,000. R. Carter, County Clk.; T. Montgomery, County Surv., Hay Fork, Cal.

CRYSLER, ONT.—Bids are asked by J. A. Cockburn, Twp. Clk., Crysler, until June 29 for making necessary excavations for and the construction of concrete piers, and the building of approaches for bridges to cross Payne River. W. H. Magwood, Engr., Cornwall, Ont.

OWEN SOUND, ONT.—Tenders will be received by W. H. McClarty, Chn. Bd. of Wks., until July 14 for construction of either of the following: (1) Two reinforced cement concrete arches with center pier, each span 50 ft. clear, roadway 24 ft. in width, with two cement concrete sidewalks 6 ft. in width. (2) one steel deck trussed bridge 100 ft. span c. to c., 24-ft. roadway, two cement concrete sidewalks 6 ft. in width, reinforced cement concrete floor; (3) two cement concrete or rock ashlar abutments containing some 205 cu. yds. R. McDowall, Town Engr.

SARAWAK, ONT.—A by-law to raise $2,000 to build a bridge over Indian River at Nelson's mill will be submitted to township ratepayers on June 30.

ORILLIA, ONT.—County Council is considering the building of a bridge across Mad River at Singhampton.

CALGARY, N. W. T.—By-laws were carried recently providing $2,000 to complete bridge across Elbow River.

VICTORIA, B. C.—Plans have been prepared by city engineer for Rock Bay bridge, work on which will probably be commenced in the near future.

## BUILDINGS.

*The names of parties awarded contracts are printed in capital letters.*

AMESBURY, MASS.—The following bids were received by Jas. Knox Taylor, Supv. Arch., Washington, D. C., for construction, complete, of U. S. post-office at Amesbury: Richardson & Burgess, Washington, D. C., $42,437; Fissell & Wagner, 1133 Broadway, New York, $42,445; Wheaton Building & Lumber Co., Putnam, Conn., $44,000; P. H. Jackson & Son, Boston, $44,355; Maurice H. Maney, Boston, $48,725; M. A. McCormick, Newport, R. I., $56,820.

NEWPORT, R. I.—Bids will be received by Bureau of Supplies and Accounts, U. S. N., Washington, D. C., until June 27, 10 a. m., for construction at naval station, Newport, of a brick rifle gallery, 90 × 26 × 10 ft. H. T. B. Harris, Paym.-Gen., Washington, D. C.

NEW YORK, N. Y.—H. J. Hardenbergh, Arch., 1 West 34th St., has plans in progress for a hotel to be erected at 58th St. and Fifth Ave., for the Plaza Hotel Co., H. S. Black, Pres., 949 Broadway. GEO. A. FULLER CO. has the general contract for construction. Boilers, engines, generators, refrigerating plant, coal-handling machinery, pumps, laundry machinery, etc. Brick, stone and steel, fireproof, 15 stories, 150 × 200 × 325 ft.

P. R. Moses, 320 Fifth Ave., consulting engineer for hotel to be erected at 105 West 71st St., for the Oak Realty Co., is ready for bids on engines, boilers, motors, generators, elevators, switchboards, electric wiring, heating system, plumbing apparatus, laundry, refrigerating plant, storage battery and 'phone system.

H. J. Hardenbergh, Arch., has plans in progress for very extensive general interior changes to be made to apartment hotel at 54-8 West 33d St., for W. R. H. Martin, care of Rogers, Peet & Co. Heating system, ventilating, electric wiring, plumbing apparatus and new decorations will be required.

Ernest Flagg, Arch., 25 Wall St., has filed plans for $500,000 residence to be erected by P. G. Browne, 149 Broadway, at 52d St. and Fifth Ave. Extensive heating and electrical systems will be installed.

General contract for loft building to be erected at 12th St. and Fourth Ave., for the Hamilton Fish Corporation, has been awarded to JAMES STEWART & CO., 135 Broadway. Robertson & Potter, Archs., 160 Fifth Ave. Brick and stone, 8 stories, 75 × 125 ft. Cost, $250,000.

BUFFALO, N. Y.—Aaron E. Sipe has given to SIDNEY H. WOODRUFF, Arch., 500 Main St., Buffalo, the contract for designing and constructing an apartment house at 40 North Pearl St. Cost $50,000.

EAST ORANGE, N. J.—Van Vleck & Goldsmith, Archs., 111 Fifth Ave., have plans in progress for a residence here for Mrs. F. M. Johnson, of Montclair, N. J. Wood, 2½ stories, 45 × 60 ft. Cost, $75,000.

PRINCETON, N. J.—J. W. BISHOP CO., of Providence, R. I., has been awarded general contract for dormitory to be erected here for Princeton University. B. W. Morris, Jr., is Arch., 5 West 31st St., New York. Previously noted.

MILLBURN, N. J.—J. B. EVERETT, of Orange, N. J., has received contract for mason work and W. C. JONES, of Newark, N. J., received contract for carpenter work for $75,000 residence to be erected at Millburn for J. Taylor, 487 Broadway, New York. P. J. Piatti and R. Moore are Consult. Engrs., 156 Fifth Ave., and will have plans ready for bids in about two weeks for low pressure heating system, mostly indirect.

WESTFIELD, N. J.—General contract for residence to be erected at Westfield for H. M. Phillips has been let to WILCOX & POPE, of Westfield. J. T. Tubby, Jr., is Arch., 71 Fulton St., New York.

NEWARK, N. J.—Contracts have been awarded by Committee on Schoolhouses of Board of Education for Belmont Ave. school. The AMERICAN CONCRETE STEEL CO. was awarded masonry contract for $69,000, and the same company was given the iron work contract for $15,400. SHARWELL & CO., of Newark, were awarded the carpenter work, at $17,469. Hurd & Sutton, Archs., 325 Prudential Bldg., Newark.

PITTSBURG, PA.—E. M. Butz, Arch., Bessemer Bldg., Pittsburg, has plans for three-story brick apartment house to be built for Mrs. Harry Schaub, at Lorimer and Shetland Aves. Cost, $50,000.

The ENGINEERING COMPANY OF AMERICA, 74 Broadway, New York, has been awarded contract for electrical work on buildings of Carnegie technical schools, at $33,125.

The contract for drawing plans for new Homeopathic hospital, to be erected at Center and Aiken Aves., is to be awarded to Muller & East, Archs., 4 Eighth St., Pittsburg. Cost, about $1,500,000. A. R. Peacock is Chn. Bldg. Com.

ALLENTOWN, PA.—The proposals submitted Jas. Knox Taylor, Supv. Arch., Washington, D. C., for the erection of new post-office here, according to plans and specifications by George Bispham Page, Arch., Harrison Bldg., Philadelphia, follow: Fissel & Wagner, 1133 Broadway, New York, $80,700; Thos. Reilly, 1616 Thompson St., Philadelphia, $81,610; General Supply & Const. Co., 24 State St. New York, $83,125; Cramp & Co., 1421 Filbert St., Philadelphia, $84,912; Wheaton Building & Lumber Co., Putnam, Conn., $92,000; M. T. J. Ochs, 227 North Fifth St., Allentown, Pa., $107,664.

ALLENTOWN, PA.—Bids were opened at District Building for construction of east wing of workhouse at Washington Asylum. Specifications do not include cell work. Two sets of proposals were received, one for construction of building of red brick and the other of light brick. The bids were as follows, the proposal for red brick being given first in each instance: W. E. Speer, $50,000 and $53,000; Gleason & Humphrey, $54,223 and $56,823; Brennan Const. Co., $54,300 and $56,400; Jennings & Scott, $54,899 and $55,799; I. Pavarini, $58,292 and $59,292.

BALTIMORE, MD.—Plans have been prepared by Chas. E. Cassell & Son, Archs., 411 North Charles St., Baltimore, for Metropolitan Theater, to be erected on East Baltimore St.

RICHMOND, VA.—It is stated that a new Y. M. C. A. building to cost $175,000 is to be erected in Richmond.

DURHAM, N. C.—City is having plans prepared for the erection of proposed high-school building for which $50,000 of bonds was recently voted. Brick, 2 stories and basement, 190 × 355 ft. Steam heating plant will be installed. J. A. Matheson, Supt. Schools.

AIKEN, S. C.—C. W. Perkins, Asst. Mgr. Summit Hotel, Poland, Me., and associates, are organizing a company for the erection of a hotel at a cost of $250,000. C. C. Wilson is Arch., 1422 Main St., Columbia, S. C.

SPARTANBURG, S. C.—Bids are asked by James Knox Taylor, Supv. Arch., Washington, D. C., until July 26, for construction complete of U. S. Post Office at Spartanburg.

ATLANTA, GA.—Empire State Improvement Co. will erect a six-story hotel at a cost of $100,000. E. C. Seiz is the architect and builder.

MARIANNA, FLA.—County Commissioners have decided to build a court-house to cost $45,000.

HATTIESBURG, MISS.—GRAHAM CONST. CO. has contract to erect a three-story brick business building for A. D. Draughan.

NEW ORLEANS, LA.—A syndicate represented by Schwartz & Isaacs has purchased property at Canal and Dauphine Sts., and, it is stated, will erect a ten-story building.

KNOXVILLE, TENN.—Bids are now being received for construction of a store to be erected for C. M. McGhee. Brick, 4 stories, 44 × 150 ft. Baumann Bros., Archs., Knoxville. Cost, $25,000.

CHATTANOOGA, TENN.—City has voted a $125,000 bond issue for school improvements.

POLAND, O.—Bids are asked by Board of Education until July 8 for the erection of a school building in Dist. No. 1. J. H. Cavett, Clk.

CRAWFORDSVILLE, IND.—Edward Henry, of Tipton, Ind., was lowest bidder, at $35,600, for construction of post-office in Crawfordsville.

MUNCIE, IND.—Bids are asked by James Knox Taylor, Supv. Arch., Washington, D. C., until July 25 for construction, complete, of U. S. post-office at Muncie.

INDIANAPOLIS, IND.—The contract for interior decoration of new Federal building in this city has been let to CHAPMAN & CO., of Philadelphia, Pa., for $49,050.

CHICAGO, ILL.—Bids are asked by Board of Trustees of Sanitary District until Aug. 9 for taking down that portion of Seipp Bldg. abutting Chicago River and reconstructing same on the proposed new easterly line of said river; and further the construction of a concrete dock. S. D. Griffin, Clk.

CHICAGO, ILL.—Marshall & Fox, Archs., 160 Dearborn St., Chicago, have been retained to prepare plans for Hippodrome building. Cost, $500,000.

T. N. Bell, Arch., 134 Vanburen St., Chicago, has plans for two apartment buildings to be built on Washington Boulevard for Robt. L. Martin, Jr. Cost, $90,000.

LADYSMITH, WIS.—Bids are asked by F. E. Munroe, County Clk., until July 15 for the erection of sheriff's residence and jail. E. J. Donahue, Arch., Gilfillan Block, St. Paul, Minn. A. F. Hein, Chn. Com.

LA CROSSE, WIS.—Plans have been prepared by Jos. C. Llewellyn, Arch., 1518 First Natl. Bank Bldg., Chicago, Ill., and contracts will soon be let for $125,000 high-school. Brick and stone, 2 stories, 128 × 212 ft. Boilers, two 60-KW. units with direct-connected engines, blast system of heating, etc.

FARGO, N. DAK.—Bids are asked by James Knox Taylor, Supervising Arch., Washington, D. C., until 3 p. m., July 24, for construction, complete, except elevator, of U. S. post-office and custom-house at Fargo. (Advertised, Engineering News.)

DILLON, MONT.—Contract for construction of new normal college building at Dillon has been let to ED. WAGONER, of Helena, Mont., for $44,985. C. S. Haire, Arch., Power Bldg., Helena.

NEVADA, MO.—J. A. DALY, of Nevada, was awarded contract by State Asylum Board to build new addition to that institution, at $31,490.

LITLE ROCK, ARK.—Proposals will be received until Sept. 14 for the erection of a fireproof hotel building of 176 rooms capacity. Geo. R. Martin, Arch., Little Rock.

NEWPORT, ARK.—Sealed bids will be received until June 28 to erect a new jail at Newport. Address E. L. Boyce, County Judge, Newport.

DALLAS, TEX.—The directors of the Dallas Scottish Rite Cathedral Association will receive plans from architects for a Scottish Rite cathedral to cost approximately $100,000. Four prizes are to be offered. Address O. H. Lang, consulting architect of building committee.

HOUSTON, TEX.—It is proposed to erect in Houston a hotel building to cost from $800,000 to $1,000,000. Addison H. Baldwin, of Houston, is interested. W. H. Hammond & Co., Archs.

SEATTLE, WASH.—The Knapp-West Studio, 461 Arcade Bldg., Seattle, will soon let contract for a seven-story family hotel, 30 × 120 ft., for James Hanover, care Architect. Cost, $70,000.

GLOBE, ARIZ.—Plans and specifications, in detail, for building court-house of stone in Globe will be received by Board of Supervisors until July 1. Cost not to exceed $35,000. W. D. Fisk, Clk.

BOISE, IDAHO.—The Idaho Trust & Savings Bank will erect a four-story brick building, costing about $40,000. E. C. Cook is one of the directors.

WALLACE, IDAHO.—County Commissioners will receive bids until July 10 for erection and completion of a fireproof court-house and jail building; cost not to exceed $70,000. Stanley P. Fairweather, Clk.

REGINA, N. W. T.—The City Hall Committee has recommended that competitive plans be invited for a city hall to cost about $75,000.

## WATER SUPPLY—IRRIGATION.

*The names of parties awarded contracts are printed in capital letters.*

CHARLESTOWN, N. H.—Final surveys are stated to have been completed for proposed water and sewer system of the recently incorporated Charlestown Water & Sewerage Co. Frank W. Hamlin is Pres. of the company; Arthur W. Dudley, Manchester, N. H., is Engr.

BRISTOL, VT.—Contract for constructing water-works for this place, bids received June 2 by Water Com., F. H. Palmer, Chn., has been let to DENNISTON & CO., 600 Elinanger & Barry Bldg., Rochester, N. Y., for $51,172. Lhoyd & Mann, Engrs.

NORTHFIELD, VT.—Water Commissioners have awarded following contracts for constructing town water system: FLOOD & SHERRILL, Sandy Hill, N. Y., cement reservoir and pipe laying, $11,903; M. J. DRUMMOND & CO., New York, pipe, $21,390. Bids were received June 6.

PEEKSKILL, N. Y.—Water Commissioners have awarded contract for constructing 20-in. force main to CHARLTON & WESTON, Yonkers, N. Y., for $4,297. Bids were opened June 9.

NEW YORK, N. Y.—The Aqueduct Commissioners have awarded contract for constructing masonry dam across Cross River, near Katonah station, to MACARTHUR BROS. CO., 11 Pine St., New York, and WINSTON & CO., Clinton, Mass., for $1,246,212. The bids for the work were received May 31, and are given under Contract Prices in our issue of June 8.

WHITE PLAINS, N. Y.—Contract for installing water system on Lake Mahopac Island has been let to G. ROSSING, Scardale, N. Y.

NEW YORK, N. Y.—Bids are asked by John T. Oakley, Comr. Water Supply, Gas and Electricity, 13 Park Row, until 2 p. m., July 6, for furnishing and delivering single and double New York case hydrants.

LUMBERTON, N. J.—Bids are asked by Lumberton Light, Water & Sewerage Co., George F. Reid, Pres., until noon June 30 for furnishing material and constructing water-works, comprising the following: Two miles 4-in. to 8-in. pipe, 20 double nozzle fire hydrants, 17 valves, one triplex power pump and gasolene engine, 10 × 100 ft. standpipe, pump well and pumping station. Wm. H. Boardman, Engr., 426 Walnut St., Philadelphia, Pa. (Advertised, Engineering News.)

NEW FREEDOM, PA.—Chas. S. York, Consult. Engr., 1526 East Biddle St., Baltimore, Md., has been engaged to remodel the water-works of this place.

WILMINGTON, DEL.—Water Commissioners have awarded contract for new pumping engine (bids received June 5) to the HOLLY MFG. CO., Buffalo, N. Y., for $76,769.

WASHINGTON, D. C.—Bids are asked by Isthmian Canal Commission until July 19 for furnishing a system of pumps and engines for use at Cristobel, Panama, two steam pumps and three boilers for Colon waterworks and two double cylinder hoisting engines and boilers complete for use at Cristobel. (Advertised, Engineering News.)

WARRENTON, VA.—We are informed that this town has voted to issue $23,000 of bonds to build new 3,000,000-gallon reservoir and appurtenances, as recommended by Howard Murphy, Engr.

COLUMBIA, S. C.—We are informed that the Supreme Court of South Carolina has decided favorably upon proposed $400,000 bond issue of this city for building a water works system, and that bids for the work will be received early in August. Works will embrace several miles of extensions to the distribution system, new steam and water power pumping station, turbine water wheels, power pumps, centrifugal pumps, filtration plant, pumping engines and other accessories. Requests for specifications and other information relative to the work should be addressed to the Engineer, J. L. Ludlow, Winston-Salem, N. C.

BATON ROUGE, LA.—We are informed that no new plans for water-works are contemplated at present. Owners of old plant and the city have a law suit about the plant. R. Swart is Cy. Engr.

GRAYSON, KY.—Franchises for waterworks, electric lights and telephones in this town have been granted to Claude Wilson, Olive Hill, Ky.

COLUMBUS, O.—Following bids were received June 15 by Board of Public Service, Julian Griggs, Ch. Engr., for water purification works: Ambrose B. Stannard, $555,748; Thomas Lightbody, $542,960; Sullivan, Murphy & Miles, $582,355; [illegible] Itemized bids are given [illegible] Prices.

DRESDEN, O.—Town [illegible] to grant water-works [illegible] Diehl, Scio, O. It is [illegible] water supply from wells.

CINCINNATI, O.—[illegible] sioners are stated to have [illegible] for laying cast-iron pip[illegible] the contract going to F[illegible] $9,428.

CRESTLINE, O.—We [illegible] contract for construction [illegible] water-works for this pla[illegible] NATIONAL CONSTRUCT[illegible] Bend, Ind. Est. cost is $[illegible] is to be from wells, four [illegible] were received June 5 by [illegible] Bd. Pub. Affairs. Walter [illegible] ing Co., Cleveland, O., wer[illegible]

SULLIVAN, IND.—Sulliv[illegible] awarded contract to JOH[illegible] Freelandville, Ind., for dri[illegible] its new water-works.

MUNCIE, IND.—Americ[illegible] Co., Pittsburg, Pa., which [illegible] works, is stated to be prep[illegible] $50,000 pumping station he[illegible]

DELPHI, IND.—Contract [illegible] water works at this place [illegible] JOHN C. O'CONNOR for $[illegible]

THEBES, ILL.—Richard H[illegible] Security Bldg., St. Louis, M[illegible] made a report on the cost of [illegible] this place.

ALTON, ILL.—City Council has appointed a committee of citizens to act with the Water Committee to devise means for [illegible] to acquire the plant from the water company and to make much needed extensions to pipe lines, filters and additions to pumping machinery. This committee is the result of certain recommendations made to H. B. Sparks, Chn. Water Com., by Richard H. Phillips, Engr., Security Bldg., St. Louis, Mo.

WAUWATOSA, WIS.—Contract for extending water-works of this place has been awarded to C. J. CRILLEY.

ELDORA, IA.—Bids are asked by L. F. Brown, Chn. Purchasing Com., until 7 p. m., June 30, for furnishing 850 ft. 4-in. standard cast iron water pipe, two regular tees, 4 × 4 × 4 standard cast iron and two regular 4-in. standard cast iron plugs. (Advertised, Engineering News.)

DUMONT, MINN.—Bids are asked by Henry Danneker, Village Recdr., until 8 p. m., June 24 for gasolene engine and pump.

HALSTAD, MINN.—Bids are asked by Ole O. Sjordal, Village Recdr., until July 7 for laying about 1,600 ft. of 4-in. water main.

NASHWAUK, MINN.—We are informed that contract for construction of new village water-works was let to DOWLING BROS., Eveleth, Minn., for $18,934. Bids were opened June 5. Paul H. Tredt, Village Recdr.; T. F. McGilvary, Des. Engr. Supply is to be from well.

MELROSE, MINN.—Bids are asked by F. J. Weisser, Cy. Clk., until 3 p. m., June 24, for installation of complete water-works and electric light system for this city. The work will consist approximately of a brick building, steam and pumping plant or gas producer power plant, generator, pole line and wiring, steel tower and steel tank, distribution pipe line system and system of drive wells. Oscar Claussen, Engr., 514 National German-American Bank Bldg., St. Paul, Minn.

OTTAWA, KAN.—The Mayor writes us that no definite work has been done as yet toward municipal water-works; estimate on cost of old plant has been made.

FORT PIERRE, S. DAK.—We are informed that M. A. Earl, Engr., 1416 First National Bank Bldg., Chicago, Ill., will have plans and specifications ready by July 1 for new city water-works, estimated cost of which is $30,000. It is proposed to take bids on either July 13 or July 20. Supply is to be obtained from Missouri River. Mayor Charles J. Lavroy is official in charge.

TWIN BROOKS, S. DAK.—We are informed that proposed new water-works of this town will consist of 40-ft. tank, pressure supplied by compressed air; water will be pumped by gasolene engine. Supply is to be from wells. F. E. Robert is Town Treas.

HAVRE, MONT.—Bids are asked by J. M. Kelly, Cy. Clk., until 8 p. m., July 18, for furnishing labor and materials for installation of water main system and construction of 500,000 gallon concrete reservoir. C. W. Swearingen, Cy. Engr.

PURCELL, MO.—City Council has granted water franchise to E. G. Burklin, Carthage, Mo., and the company which he represents proposes to lay a pipe line from Spring River to the towns of Alba, Neck City and Purcell.

MEXIA, TEX.—Local water-works have been sold to A. M. Turner and associates of Hillsboro, Tex., and they propose, it is stated, to expend about $75,000 in improvements. A 10-in. pipe line will be built to Old Springfield where a supply can be obtained.

ALTUS, OKLA.—We are informed that nothing has been done regarding waterworks for this place, and matter will likely be carried over for several months. Jno. D. Rogers is Cy. Atty.

PYRAMID, COLO.—U. S. Forestry Bureau has granted Geo. W. Beardslee, Pyramid, Colo., permission to construct three small reservoirs in White River forest reserve.

LONGMONT, COLO.—We are informed that Blue Mountain Reservoir & Ditch Co., W. L. McCaslin, Secy., proposes to construct about ten miles of ditch, 12 ft. to 25 ft. wide on bottom and 4,000 ft. of dam, containing about 425,000 cu. yds. earth. Three or four valves in outlet tube will be installed also. J. M. Ferguson is Des. Engr.

ROSWELL, N. MEX.—Taylor-Moore Construction Co. is stated to have assigned its contract for the Hondo Reservoir to the U. S. Government. W. M. Reed, Engr., of the Reclamation Service has taken charge of the work, but as yet there is some doubt as to whether the government will relet the work or finish it under the supervision of the Reclamation engineers. The contract amounted to about $121,000 and about 80% remained completed.

SEATTLE, WASH.—Board Public Works has awarded contract to the PUGET SOUND BRIDGE & DREDGING CO. for laying cast-iron water pipe in Summit Ave., for $6,481.

FORT STEILACOOM, WASH.—Contract for installation of new water system at this fort has been awarded to BURRELL CONSTRUCTION CO. of Portland, Ore., for $16,942.

SPOKANE, WASH.—Bids are asked by Board Public Works, until 2 p. m., July 5 for 18,800 lin. ft. of 30-in. main; 10,800 ft. of 24-in. main, and 7,500 lin. ft. of 20-in. main.

SAN DIEGO, CAL.—County Supervisors have awarded contract for furnishing 4,000 ft. 2-in. pipe and 5,000 ft. 3-in. pipe, to HOLBROOK, MERRILL & STETSON.

VALLEJO, CAL.—City Trustees have voted to award contract for about $90,000 worth of improvement of water system to pipe for the GEO. H. TAY CO., representing Universal pipe.

BENICIA, CAL.—LEWIS MOREING and PALMER & McBRIDE, contractors of Stockton and San Francisco have been awarded the contract for the construction of a dam for the Benicia Water Co. Work has already been started.

HAZEN, NEV.—Following bids were received June 15 by U. S. Reclamation Service, F. H. Newell, Ch. Engr., and L. H. Taylor, Supervising Engr., for construction of Lake Tahoe outlet and regulation works, Truckee-Carson Project, Nevada: Edward Malley, Rialto Bldg., San Francisco, Cal., $32,200; Burrell Construction Co., Oakland, Cal., $32,-560; Cotton Bros. & Co., Oakland, Cal., $34,-878; E. B. and A. L. Stone Co., Oakland, Cal., $50,882; William Degen, Fresno, Cal., $51,669, entire schedule, $75,970 separate items; City Street Improvement Co., 512 Mills Bldg., San Francisco, Cal., $90,039. Itemized bids will be given under Contract Prices.

RENO, NEV.—Reno Power, Light & Water Co., W. L. Becklet, Secy., is reported to have awarded contract for 22-in. water main from Reno to Sparks to J. H. BATCHER, of Shaw, Batcher & Co., Sacramento, Cal. Work will cost about $65,000 and is to be begun immediately. The contract for an irrigation ditch to top Prosser Valley for the above Company is stated to have been awarded to the PACIFIC CONSTRUCTION CO.

BINGHAM CANYON, UTAH.—We are informed that contracts for pipe and hydrants for extensions of town water-works to be made at an est. cost of $6,000 to $10,000 have been let as follows: Hydrants, TRENT ENGINEERING & MACHINERY CO., Salt Lake City, Utah.; pipe, CRANE CO., Salt Lake City, Utah. A. T. Williams is official in charge; F. W. Quinn, Town Clk.

MONTPELIER, IDAHO.—We are informed that all bids received June 10 by Montpelier Irrigation District, Wm. J. Hunter, Pres., for construction of irrigation canal in Bear Lake County, were rejected, and new bids will be called later on. The canal was to be about 27 miles long. Washington Jenkins, Engr. in Charge.

ELMSDALE, P. E. I.—Contract for erection of eight elevated water tanks of 25,000 gallons capacity each along line of P. E. I. Ry., is stated to have been let to M. F. SCHURMAN & CO., Kensington, P. E. I., for about $20,000.

TORONTO, ONT.—Board of Control, Thomas McQueen, Secy., has awarded contract for constructing water tunnel under the bay to M. J. HANEY, Toronto, Ont., for $269,000 for work complete according to specifications. Bids were opened June 6. The tunnel is part of the $1,000,000 improvement scheme and is to be used to convey water from the lake under the harbor to the pumping station.

PORTAGE LA PRAIRIE, MAN.—Contract for two 66-in. boilers and a 250,000 gallon steel water tower has been let to MANITOBA IRON WORKS, Winnipeg, Man.

STRATHCONA, N. W. T.—Contract for excavation, pipe laying and back filling for water mains and sewers, and for setting hydrants, has been let to DIETZ & MAIN, for $51,130.

ROSSLAND, B. C.—Contract for building water-works reservoir has been let to J. J. WOOD.

FERNIE, B. C.—We are informed that tenders will probably be called for about June 20, for constructing water works system to cost about $50,000. Col. T. H. Tracy, Vancouver, B. C., is Des. Engr., and J. G. Cumming, Cy. Engr., is official in charge.

## SEWERAGE.

*The names of parties awarded contracts are printed in capital letters.*

FORT ANDREWS, MASS.—The sewer system at Fort Andrews will be installed by RAFELLO & FERGUSON, at $2,267.

WOBURN, MASS.—Board Public Works has asked City Council for $1,000 for construction of Jefferson sewer.

LONG ISLAND CITY (L. I.), N. Y.—Bids are asked by Jos. Cassidy, Boro. Pres., until June 26 for construction of sewers and appurtenances in portions of First and Ninth Aves.

MAMARONECK, N. Y.—Bids are asked by Village Trustees, Daniel Warren, Pres., until July 12 for constructing four miles of sewers, including trunk sewer. John M. Farley, Engr. White Plains, N. Y. (Advertised, Engineering News.)

BROOKLYN, N. Y.—Bids are asked by Martin W. Littleton, Boro. Pres., until June 28 for furnishing material and constructing sewers in portions of several streets.

EAST SYRACUSE, N. Y.—Following bids were received June 15 by Sewer Commissioners for constructing sewage disposal plant: Frank Pidgeon, Saugerties, N. Y., $21,391; De Nallo & Klingbury, Kingston, N. Y., $19,-652; C. T. Hookway, Syracuse, N. Y., $16,-046; C. R. Lewis, Illion, N. Y., $20,954. Morrison & Farrington, Inc., Engrs., Syracuse, N. Y. Itemized bids will be given under Contract Prices.

BUFFALO, N. Y.—Miller & Franklin, 805 Ellicott St., Buffalo, were the lowest bidders, at $6,298, for constructing sewers here on various streets.

BINGHAMTON, N. Y.—The proposition to bond city for $85,000 for construction of a trunk sewer in Fourth Ward was carried at a recent special election.

ELIZABETH, N. J.—Board of Health will recommend to City Council the construction of a sewer in Murray St. W. H. Luster, Jr., is Cy. Engr.

CAMDEN, N. J.—The Street Committee of City Council awarded to AARON WARD the contract for construction of a number of sewers.

CAPE MAY, N. J.—City Council has passed through first reading an ordinance for the laying of about a mile of sewer in the new East Cape May tract, on Michigan, Madison and Beach Aves.

PLAINFIELD, N. J.—The contract for enlarging sewerage disposal plant has been awrded to RICHARDS & GASTON, 143 Liberty St., New York, for $52,047. For itemized bid see last issue.

GETTYSBURG, PA.—Plans for proposed sewer system here are on file in office of Engineering News, 220 Broadway, New York. Bids will be received until July 3, as advertised in Engineering News

WASHINGTON, D. C.—The following bids were received June 10 by District Commissioners for furnishing terra cotta sewer pipe and branches: Jas. A. Coyle, Washington, (a) $3,948, (b) $7,533; E. G. Gummel, Washington, (a) $3,554, (b) $6,104. D. E. McComb, Supt. Sewers.

PETERSBURG, VA.—A committee has been appointed to take charge of proposed extension of sewers and water mains and improvement of sidewalks to cost $75,000. G. B. Gill, Cy. Audr.

MACON, GA.—Bids are asked by Hon. Wm. A. McKenna, Chn. Sewer Com., until July 8 for building of from six to ten miles of sanitary sewers. T. L. Massenburg, Cy. Clk.

TROY, ALA.—The city will put in a system of sewerage. The mayor can give information.

GADSEN, ALA.—City will vote July 10 on the issuance of $30,000 of bonds for construction of sewerage system. Address the Mayor.

TROY, ALA.—City Council has decided to construct a sewerage system.

CORINTH, MISS.—Plans are being prepared by Kirkpatrick & Johnson, of Jackson, for about seven miles of sewers.

GRENADA, MISS.—On July 5 city will vote on the issuance of $30,000 of bonds for extending sewerage system and making other municipal improvements.

OPELOUSAS, LA.—The city is contemplating the construction of a sewerage system.

ST. ELMO (STA. CHATTANOOGA), TENN.—The St. Elmo Sewerage Co. has been incorporated with $10,000 cap. stock by K. D. Davis, J. A. Patten, E. E. Betts and others to construct sewerage system.

BOWLING GREEN, O.—The reconstruction of the Poe and tributary sewers in this city and the construction of a large catchbasin to take the place of a sewage disposal plant, will cost the city about $24,000, according to the engineer's estimate.

CINCINNATI, O.—The following bids were received by Board Public Service June 15 for constructing a 4-ft. sewer in Lelland Ave.: Jno. E. Mahoney, $4,969; Jno. D. Washburn, $4,329; Wm. Heffron Const. Co., $4,053; McCarty Bros., $4,389.

Bids are asked by Board Public Service until July 5 for construction of a 12-in. pipe sewer in Stanley St.; est. cost, $4,503. Geo. F. Holmes, Clk.; J. E. Breen, Cy. Engr.

RAVENNA, O.—Specifications are on file in office of Engineering News, 220 Broadway, for sewers, bids for which are to be opened June 24, as advertised in Engineering News.

LONDON, O.—Specifications for sanitary sewer system and sewage disposal works are on file in office of Engineering News, 220 Broadway, New York. Bids will be opened June 26, as advertised in Engineering News.

EVANSVILLE, IND.—City Engineer Pfaffin is preparing plans for two sewers and for the paving of St. Joseph Ave., and bids will be invited soon.

LAPORTE, IND.—Two bids were received June 12 for constructing a brick sewer, as follows: W. W. Wise, $2.27 per ft. and Emil Johnson, $2.21 per ft.; both bids were rejected. Engineer's estimate, $1.27 per ft. H. Burner, Engr., Laporte.

WYANDOTTE, MICH.—Board Public Works has let contract to draw plans and specifications for gravity system of sewers and superintend their construction to Mason L. Brown, Chamber of Commerce Bldg., Detroit, Mich. Est. cost, $70,000.

EAST MOLINE, ILL.—Wm. H. Kimball, Engr., 114 West Third St., Davenport, Ia., is preparing plans for a storm water sewer system for East Moline. Bids will not be received for some time yet.

DANVILLE, ILL.—The city intends constructing 2,600 ft. of 36-in. brick and 4,500 ft. of 15 to 24-in. pipe sewers, estimated to cost $29,000. W. H. Martin, Cy. Engr.

LA GRANGE PARK, ILL.—Bids are asked until June 29 for about 5,000 lin. ft. of sewers. Specifications at office of W. B. Ewing, Consult. Engr., 1003 Chamber of Commerce Bldg., Chicago.

THEBES, ILL.—Richard H. Phillips, Consult. Engr., Security Bldg., St. Louis, Mo., has made a report on cost of a sanitary sewer system for Thebes.

SOUTH MILWAUKEE, WIS.—Bids will be received until June 29 for furnishing materials and constructing a section of sewer in a portion of Marquette Ave. Jos. Saxler, Cy. Clk.

DES MOINES, IA.—JAS. HORRABIN & CO. have signed the Ingersoll sewer contract, agreeing to build the entire drain for $39,500.

GRANITE CITY, ILL.—Contract for constructing 9,500 ft. of sewering here has been let to DAVID RYAN. Cost, $10,000.

BATAVIA, ILL.—The city will soon commence work of constructing a system of sewers.

CHISHOLM, MINN.—Bids will be received by W. A. Masters, Vil. Recdr., until June 26, 9 p. m., for construction of a sewer on Lake St.

STEPHAN, S. DAK.—Bids are asked by Rev. P. Boehm, of Stephan, until July 3 for building a sewer here.

PORTLAND, ORE.—Plans for proposed Brooklyn District sewer, to cost about $200,-000, will not be completed for 60 days. Chas. Wanzer, Cy. Engr.

OAKLAND, CAL.—F. C. Turner, Cy. Engr., has recommended to Council that steps be taken to build outlet sewers for all districts lying south of Seventh St. railroad tracks, both in East and West Oakland. Est. cost, $100,000.

GANANOQUE, ONT.—The by-law to raise $35,000 for completion of water-works and sewerage systems will be submitted to ratepayers July 6.

MEAFORD, ONT.—The Council will receive bids until June 26 for applications for office of engineer to advise and prepare plans and specifications for a system of sewers in town of Meaford. State references. Geo. G. Albery, Town Clk.

MONCTON, ONT.—Tenders will be invited for construction of sewers.

REGINA, N. W. T.—Tenders will probably be invited shortly for extension of sewerage and water-works systems.

MEDICINE HAT, N. W. T.—We are informed that this town intends constructing a sewerage system in the near future.

FERNIE, B. C.—Tenders are being received for a sewerage system to cost about $30,000. Col. T. H. Tracy, Engr., Vancouver, B. C.; J. G. Cumminge, Cy. Engr.

## GARBAGE DISPOSAL.

*The names of parties awarded contracts are printed in capital letters.*

PORT CHESTER, N. Y.—Bids are asked by Village Trustees, C. D. Camp, Clk., until 8 p. m., July 3, for disposal of garbage and ashes for one year.

WEST HOBOKEN, N. Y.—Following bids were received June 15, by City Council for removal of ashes and garbage for ensuing year: Antonio Padavano, $4,595; James Padavano, $5,295; Peter Clarke, $5,995; William Zeigel, $7,000, and Antonio Capone, $4,875.

HOBOKEN, N. J.—City Council, according to reports, will readvertise for bids for removal of ashes and garbage for ensuing year.

ORANGE, N. J.—Maloney Contracting Co., with capital of $10,000, has been incorporated for the purpose of taking garbage removal contracts and for general trucking. Benjamin Meyer, Chas. F. Metz and Frank Maloney are interested. The last named party was recently awarded contract for scavenger work in Orange for $11,000 per year.

PHILADELPHIA, PA.—Department of Public Works, according to reports, is to soon ask for new bids for garbage disposal.

LANSING, MICH.—The State Legislature has passed bills permitting the City of Detroit to bond itself for $100,000 to establish a municipal garbage plant.

BLOOMINGTON, ILL.—Contract for removal of garbage, ashes, etc., has been let to D. T. FOSTER, at $7,500 per year.

MILWAUKEE, WIS.—Common Council has adopted resolution for appointment of special committee to investigate advisability of a new system of disposing of garbage at municipal plant at Jones Island.

DULUTH, MINN.—City Council has awarded contract for construction of garbage crematory to the DECARIE MFG. CO., Minneapolis, Minn., for about $29,000.

TOPEKA, KAN.—T. D. Humphrey, representing a desicating company which is about to be organized has made proposition to the Council Streets and Walks Committee offering to enter into a contract on the behalf of his company to take care of and dispose of the city garbage..

## STREETS AND ROADS.

*The names of parties awarded contracts are printed in capital letters.*

MITTINEAGUE, MASS.—Board of Selectmen awarded contract for laying of two concrete walks to JOHN W. ROCHFORD, of West Springfield.

CHESTER, MASS.—M. L. CAMARCO, of Pittsfield, Mass., was awarded contract for building a section of macadam road in Chester. Cost, $3,446.

TEWKSBURY, MASS.—Contract for building a section of macadam road here has been awarded to FRED. E. ELLIS, of Melrose, Mass., for $5,384.

SPRINGFIELD, MASS.—The Springfield Automobile Club, at a recent meeting, took action looking toward the establishment of continuous trunk highways out of this city in all directions. Wm L. Dickinson is Chn., Springfield.

BRIDGEPORT, CONN.—The city will pave 7,800 sq. yds. with either brick, wood block or bitulithic. W. W. Starr, Cy. Surv.

BATAVIA, N. Y.—Contract for paving with brick in business portion of city was awarded June 16 to JOHN MAHONEY, of Jamestown, N. Y. Est. cost $35,000. J. H. Wood, Clk.

OXFORD, N. Y.—Contract for constructing macadam road here (bids received June 1) has been let to FRANK PIDGEON, of Saugerties, N. Y., for $10,003.

PLATTSBURG BARRACKS, N. Y.—E. F. MOORE, of Plattsburg Barracks, has contract for constructing roads and walks here for $2,100.

NEW YORK, N. Y.—Bids are asked by John J. Pallas, Pres. Park Board, until June 29 for furnishing and delivering asphalt paving blocks.

Bids will be received at the same time and place for repairing walk pavements of City Hall Park.

PEEKSKILL, N. Y.—Bids are asked by Albert E. Cruger, Clk. Village Trustees, until July 11 for 4,140 sq. yds. brick paving. I. W. Reynolds, Engr. (Advertised, Engineering News.)

WELLSVILLE, N. Y.—Specifications for proposed brick paving are on file in office of Engineering News, 220 Broadway, New York, bids for which will be received until June 26, as advertised in Engineering News.

LONG ISLAND CITY (L. I.), N. Y.—Bids are asked by Jos. Cassidy, Boro. Pres., until June 26 for regulating, grading, curbing and laying sidewalks on portions of Albert St., Fifth and Ninth Aves.

NEW BRIGHTON (S. I.), N. Y.—Bids will be received by Geo. Cromwell, Boro. Pres., until June 27 for furnishing materials and regulating, grading and paving portions of several streets.

LONG ISLAND CITY (L. I.), N. Y.—The following bids were received June 12 for regulating, grading, curbing and repaving with wood block pavement the roadway of Broadway: U. S. Wood Preserving Co., 29 Broadway, New York, $56,034; Eppinger Russell Co., $58,026; Franklin Const. Co., 1 Hudson St., New York, $68,455.

LONG ISLAND CITY (L. I.), N. Y.—Bids received on June 12 for grading, curbing and laying sidewalks and crosswalks on Debevoise Ave.: Pease Bros., Boro. of Queens, $52,200; Bart Dunn, 448 East 68th St., New York, $48,640; Thos. A. Brown, Queens, $52,335; Unique Const. Co., Queens, $52,725; Long Island Const. Co., Queens, $59,720; Thos. Fowly, Queens, $49,370; Troy Public Works Co., Utica, $71,229; Wm. E. Low, Queens, $55,840; Jno. Stone, Queens, $57,450.

BROOKLYN, N. Y.—The following bids were received by Department of Parks June 15 for the erection of steps and approaches to Eastern Parkway front of Brooklyn Institute of Arts and Sciences: T. W. Carlin Const. Co., 44 Court Square, $107,000; R. E. Heningham, 4 Court Sq., $93,405; P. J. Carlin Const. Co., 1 Madison Ave., New York, $88,000.

FREEHOLD, N. J.—Bids are asked by County Freeholders until 12 noon July 12 for building first section of Allentown and New Egypt stone road, 3.36 miles long. Peter Forman Engr., Manalapan, N. J. (Advertised, Engineering News.)

MOUNT HOLLY, N. J.—Bids are asked by Board of Chosen Freeholders until July 5 for building stone roads in various townships. Joel Horner, Dir.

PERTH AMBOY, N. J.—Bids will be received until July 3 for paving of State St. with either vitrified shale paving brick or Bermudez or Venezuela asphalt. Approximate quantities: 320 lin. ft. of 4 × 16 curb set in concrete, 1,000 cu. yds. of earth excavation and 2,370 sq. yds. of paved surface. Wm. Fullerton, St. Comr.

FREEHOLD, N. J.—Contract for first section of Freehold and Colts Neck Road was awarded to W. C. SHANLEY, of Newark, N. J., for $22,874.

FREEHOLD, N. J.—Contract for macadamizing Freehold and Colts Neck Road has been awarded to W. C. SHANLEY, Newark, N. J., for $22,874. Bids were received June 14, by County Freeholders, Peter Foreman, Engr.

ELIZABETH, N. J.—Ordinance is being published for paving of Jefferson Ave. with asphalt, after which bids will be received and contracts awarded. N. K. Thompson, St. Comr.

POTTSTOWN, PA.—Bids are asked by Highway Committee of Town Council until June 27, 6 p. m., for paving King St., from west side of York St. to east side of Adams St., with vitrified brick upon a stone and sand foundation, approximately 12,000 sq. yds. Ralph E. Shaner, Boro. Engr.

SHAMOKIN, PA.—Council has passed ordinances authorizing the paving of Walnut and Cleaver Sts.

NEWMARKET, MD.—County Commissioners have awarded contract to M. J. GROVE LIME CO., of Frederick, Md., at $9,316, for building a road between Newmarket and Monrovia.

CATONSVILLE, MD.—County Commissioners have awarded contract to THOS. R. MARTIN & SON, at $7,078, for macadamizing Wilkens Ave.

FARMINGTON, MD.—County Commissioners have awarded contract to E. WARD BROWN at $5,202 for building a mile of macadam road between Farmington and Rising Sun, Md.

MOUNT AIRY, MD.—Bids are asked by Road Commissioners until June 26, 12 m., for improving public highway between Mt. Airy and Ridgeville and beyond for about one mile. Wm. A. Harrison, Rd. Comr.

WASHINGTON, D. C.—Bids are asked until 2 p. m., July 29 for furnishing and delivering 7,800 tons of broken stone for constructing roadways in Potomac Park. Col. Chas. S. Bromwell. (Advertised, Engineering News.)

PETERSBURG, VA.—See under Sewers.

TAMPA, FLA.—It is stated that this city has sold street improvement bonds amounting to $300,000.

DANVILLE, VA.—City will vote June 20 on the issuance of $50,000 of bonds for street improvements. C. C. Snead is Chn. St. Com.

SPARTANBURG, S. C.—City will vote on the issuance of $100,000 of bonds for street improvements. Address the Mayor.

FORT MOULTRIE, S. C.—Bids are asked until June 28 for construction of roads and walks here. F. W. Cole, Q. M.

CINCINNATI, O.—The Kirchner Const. Co., of Cincinnati, was the lowest bidder, at $2,783, for paving Lawrence St.

Bids were received by Board Public Service June 14 for paving McAlister St. with bitulithic as follows: Henkel & Sullivan, $3,-659; Warren Bros. Co., $3,685; Kirchner Const. Co., $3,596.

CINCINNATI, O.—Bids are asked by Board Public Service until June 26 for macadamizing roadway of Highland Ave. and Symes St.

Contract for paving Borden St. with brick has been awarded to M. T. FLYNN, of Cincinnati, for $3,003. Bids were opened June 12.

JAMES AGNES, of Cincinnati, was awarded contract, at $13,289, for paving Poplar St., with granite blocks; bids opened June 12.

CLEVELAND HEIGHTS, O.—Bids are asked by Wm. G. Phare, Vil. Clk., 402 American Trust Bldg., Cleveland, until July 11 for grading of Mayfield Road.

WOODVILLE, O.—Bids for bonds and for the paving of Maumee Pike will be received until July 3, by Otis Bittinger, Clk. The work includes 12,580 sq. yds. J. C. Overmyer, of Fremont, O., is Engr.

CINCINNATI, O.—The following bids were received by Board Public Service June 15 for paving Prospect Place with bitulithic: Henkel & Sullivan, $22,080; Warren Bros. Co., $22,326; Kirchner Const. Co., $22,315.

DAYTON, O.—Bids are asked by Wm. F. Miller, Clk. Bd. Pub. Serv., until June 27 for repairing asphalt streets, about 8,000 sq. yds. Also for constructing cement sidewalks, stone flagging, curb and boulder gutters, on Warner Ave. F. M. Turner, Cy. Engr.

BUCYRUS, O.—Nine miles of crushed stone will be laid in Crawford County this fall. J. I. Smith, County Audr.; C. P. Bryant, County Surv.

BUCYRUS, O.—The public square will probably be paved with vitrified brick or sheet asphalt. Cost, $30,000. Address City Clerk.

ASHTABULA, O.—City Council has instructed the engineer to prepare plans and specifications for improving Fairfield Ave. by paving and sewering.

SULPHUR SPRINGS, O.—Three miles of crushed stone will be laid in Liberty Township this fall. Address Township Clerk.

EVANSVILLE, IND.—See under Sewers.

VINCENNES, IND.—Bids are asked by County Commissioners until July 7 for constructing 3,710 ft. of road in Vincennes Township. John I. Scott, County Audr.

GREENCASTLE, IND.—Bids are asked by County Commissioners until July 3 for roads in various townships, about 19,740 ft. C. C. Hurst, County Audr.

LOGANSPORT, IND.—Bids are asked by County Commissioners until July 5 for construction of gravel road in Jackson Township. O. C. Gard, County Audr.

GREENSBURG, IND.—Bids are asked by Frank E. Ryan, County Audr., until July 3 for construction of macadamized road in Sand Creek Township, 9,282 ft. in length; also for construction of macadamized roads in Adams and Clinton Townships, 31 miles in length.

HARTFORD CITY, IND.—The following bids were received June 1 for paving Jefferson Ave. with vitrified brick; figures were submitted on different classes of brick: Bridges & Sons, on Metropolitan block only, $24,162; Mohlering & Co., submitted 9 bids for different classes of brick, $24,502 to $25,-209; John Hays & Son (4 bids), $27,536 to $28,303; Hines & Bolan (9 bids), $28,873 to $29,809; Nolan & Slattery (7 bids), $24,335 to $25,187; Aylsworth & Cox, (5 bids), $27,-880 to $28,649; Hatch & Sons, (11 bids), $23,-948 to $24,758; Michaels & Minnick (7 bids), $24,318 to $25,229; Fred Hoffman (4 bids), $24,745 to $24,915; Gubbins & Co. (14 bids), $28,733 to $28,818; Neal Paving Co. (6 bids), $27,256 to $28,108; Union Asphalt Co. (4 bids), $29,775 to $30,626; Waugh & Buchanan (3 bids), $25,895 to $26,319; J. P. KNIGHT, of East Main St., Greenfield, Ind., (4 bids), $23,583 to $23,923 (awarded contract); Carter, Mackey & Co. (8 bids), $30,-8633 to $30,969; W. N. Vaughn (4 bids), $25,987 to $26,413; Western Const. Co. (3 bids), $25,371 to $25,882.

PAOLI, IND.—Bids are asked by Alvin B. Ham, County Audr., until July 5, 2 p. m., for construction of three macadamized or gravel roads.

RICHMOND, IND.—The Board of Public Works is asking for bids for laying cement sidewalks in several streets and for the improvement of several alleys, by grading and bouldering same. Jos. S. Zeller, Chn.

CRAWFORDSVILLE, IND.—Bids will be received until June 29 for improvement of Mill St. by the construction of cement walks and the street and alley crossings with vitrified brick. Henry Hulett, Clk.

KNOX, IND.—Bids are asked by Lee M. Ransbotton, County Audr., until July 5, for construction of the following roads by macadamizing or graveling: No. 1, 36,926 ft. in length; No. 2, 21,126 ft.; No. 3, 34,376 ft.; No. 4, 3,400 ft. Also, for construction of following roads in California Township by macadamizing or graveling: No. 1, 31,276 ft. in length; No. 2, 9,963 ft.; No. 3, 22,650 ft.; No. 4, 3,247 ft.; No. 5, 14,943 ft.; No. 6, 35,874 ft. Contract for each road will be let separately.

GRAND RAPIDS, MICH.—The contract for grading Emerald Ave. was awarded to JAS. McDERMOTT & SONS, at $5,075.

HOUGHTON, MICH.—All bids received June 12 for paving College Ave. were rejected. Casper Brand, Vil. Clk.

BELLEVILLE, ILL.—Bids will be received by Board Local Improvements until June 24 for paving of Illinois St. with vitrified brick. L. L. Harper, Cy. Engr.

KEWANEE, ILL.—Bids are asked by August Wagner, Chn. St. Com., until June 26, 7 p. m., for construction of cement and brick walks on certain streets. Approximate quantities: Cement walks, 50,000 to 100,000 sq. ft.; cement curb wall, 200 cu. ft.; cement drives, 2,000 to 5,000 sq. ft.; cement steps, 200 lin. ft.; brick walk, 2,000 to 4,000 sq. ft.; brick drives, 1,800 sq. ft. Chas. F. Sturtevant, Cy. Engr.

LA SALLE, ILL.—The city contemplates laying about 100,000 sq. ft. of pavement. C. M. Rickard, Cy. Engr.

CHICAGO, ILL.—Bids will be received by West Chicago Park Commissioner, Union Park, until June 27, 4 p. m. (readvertisement), for replacing timber floor and block paving and plank chord cover for central roadway of Ogden Ave. Viaduct, at Campbell Ave. Fred. A. Bangs, Pres.

MONROE, WIS.—Bids are asked W. T. Saucerman, Deputy Cy. Clk., until July 7 for grading and constructing 7½ blocks of macadam street, with cement curb.

BELOIT, WIS.—Bids are asked by Board Public Works until July 8 for paving of Fourth St. with vitrified block, 2,612 ft. Robt. Caldwell, Cy. Engr.

SUPERIOR, WIS.—Contract for paving of Winter St. was awarded by Board Public Works, June 8, to E. A. DAHL, for $6,476.

DES MOINES, IA.—City Council has ordered the paving of 28th St. and Rutland Ave. with asphalt. John W. Budd is Cy. Engr.

FORT LEAVENWORTH, KAN.—Bids are asked until June 24, 11 a. m., for granolithic curbs and gutters and storm water drain at Ft. Leavenworth. Capt. J. E. Normoyle, Q. M.

LEAVENWORTH, KAN.—City Council has passed an ordinance to pave Fourth St. south to city limits. The paving of this piece or road makes it possible for the warden of state prison to commence paving road from Lansing to city limits. The work will be done by convicts and will cost the state $100,000. Ed. Jones is Cy. Engr.

HELENA, ARK.—Specifications for the construction of about 7,948 sq. yds. brick pavement for this city may be seen at office of the Engineering News, 220 Broadway, New York. Bids are asked until July 1, as advertised in Engineering News.

TRINIDAD, COLO.—Bids are asked by City Council until July 1, 6 p. m., for paving Main and Commercial Sts. with vitrified brick. Alex. Sneddon, Cy. Clk.

ELMIRA, ONT.—Tenders will be received by John H. Ruppel, Vil. Clk., until June 26, 8 p. m., for building about 21,000 sq. ft. of granolithic sidewalks.

ELORA, ONT.—Contract for constructing granolithic walks here was awarded to ROYAL ARTIFICIAL STONE PAVING CO., Guelph, Ont., at 8½ cts. per ft.

WINNIPEG, MAN.—H. N. Ruttan, Cy. Engr., has reported that the cost of paving Higgins Ave. from Maple St. to subway will be $62,000 for asphalt and $82,000 for creosote blocks.

EDMONTON, N. W. T.—W. J. CARTER was awarded contract, at $28,323, for construction of cement walks.

## READERS' WANTS

**If any one is in the market for any engineering or contracting supplies, the first thing to do is to refer to our advertising pages, but if the buyer cannot find what he wants we particularly ask that he notify us at once and we will inform the proper parties without cost to the inquirer. A copy of ENGINEERING NEWS BUYERS' GUIDE will be mailed to any one upon application. This paper will always appreciate any news notes regarding public, or important private work, and will be pleased to receive detailed items. Requests to hold names will be complied with in every case. Do not fail to write our advertisers or us.**

STEEL TUBING.—Maryville, Tenn.—A. A. Coventry, Box 214, is in the market for steel tubing.

ENGINES AND BOILERS.—Ozark, Mo.—T. L. Robertson, Mayor, is reported in the market.

DRY-KILN.—Chattanooga, Tenn.—H. L. Davis & Co., 127 E. 8th St., are in the market, according to reports.

CEMENT BLOCK MACHINERY.—Cameron, S. C.—Bull & Taylor, of Cameron, are reported in the market.

TRACTION ENGINES.—Rutherfordton, N. C.—The Middleby Lumber Co. is in the market for traction engines.

SCALE BEAMS.—Americus, Ga.—W. H. Sawyer & Sons are reported as in the market for scale beams and weights.

DRILLING MACHINERY.—Kerrville, Tenn.—The Kerrville Oil & Prospecting Co. is understood to be in the market.

SAND LIME BRICK MACHINERY.—Oklahoma City, Okla.—The Louisiana Lumber Co. is in the market for the above.

GASOLINE ENGINE.—Huntington, Ark.—The Dixie Fruit Farm & Comn. Co. is in the market for a 5 to 10-HP. engine.

FLAT CARS.—Suffolk, Va.—J. H. Macleary is reported in the market for 30 standard gage 30-ft. flat cars, to be delivered at Goldsboro.

DITCHING MACHINERY. — Fayetteville, N. C.—A. L. McCaskill, Chn., Flea Hill Drainage Com., is in the market for ditching machinery.

CONCRETE BLOCK MACHINERY.—Petios, Tenn.—M. F. Burt, Engr., Big Brushy Coal & Coke Co., Box 224, writes us that he is in the market.

HOISTING ENGINE, ETC.—Lynchburg, Va.—C. W. Hancock & Son are reported in the market for a hoisting engine and a platform brick elevator.

WAGONS.—Greensboro, N. C.—The Greensboro Boiler & Machine Co. is in the market, according to reports, for heavy wagons for hauling boilers, etc.

MINING MACHINERY.—Eureka Springs, Ark.—The Ark., Kan. & Tex. Mine & Milling Co. is in the market for equipment, etc., for working a mine.

TWO-INCH CORE DRILL.—Little Rock, Ark.—Robt. L. Lund, Civil Engineer, informs us that he wants a 2-in. core drill of 2,000 ft. capacity. Second-hand preferred.

WATER POWER MACHINERY.—Ozark, Ala.—Marvin McDonald, Supt. and City Engr., is reported in the market for equipment for a 300 HP. water power plant.

MANUFACTURE OF MACHINERY.—Chicago.—The owner of a system of ice-making machinery, having a large business, wishes to arrange for the manufacture of his machines. Address Ice Machine, care of Engineering News, 1636 Monadnock Block, Chicago.

TAR HEATERS AND BOILERS.—Essex Junction, Vt.—Wm. S. Teachout, contractor, writes us that he wants names and addresses of firms making tar concrete heaters and rollers.

ICE MAKING MACHINERY. — Baton Rouge, La.—J. T. Maguire, of Baton Rouge, and the L. E. Lake, of Huntington, Ark., are in the market for the above, according to reports.

TRACK INSPECTION CAR.—Queensland, Australia.—W. Pagan, Ch. Engr., Queensland Rys., Brisbane, Q., writes us that he wants data relating to track inspection cars. Gage, 3 ft. 6 ins.

LOGGING EQUIPMENT.—Anderson, S. C.—The Kanawha Hardwood Co., of Anderson, S. C., and Heth Canfield & Son, of St. Augustine, Fla., are in the market for logging equipment.

TELEPHONE SYSTEMS.—Dover, N. J.—Geo. E. Jenkins, C. E., writes us that he wants data relating to installing telephone system to connect numerous buildings of a manufacturing plant.

STEEL CEILINGS, ETC.—Gulfport, Miss.—D. J. Haire is reported in the market for ceilings, roofing tiles, etc., as is also J. T Maguire, of Baton Rouge, La., and Stephens & Ault, 67 St. Francis St., Mobile, Ala.

RATTLER FOR TESTING BRICK.—Helena, Ark.—F. H. Wright, Cy. Engr., writes us that he wishes to buy or rent a rattler for testing paving brick, according to the N. B. M. A. standard. The address of an expert who can have such tests made is also wanted.

TWO 150-HP. ENGINES, ONE GENERATOR, ONE 150-HP. BOILER AND ELECTRIC SUPPLIES, ETC.—Lakeland, Fla.—W. B. Clay, Supt. Pub. Wks., writes us that the city of Lakeland will soon be in the market for the above, as it is intended to enlarge the electric plant.

CONTRACTORS' SUPPLIES AND MACHINERY.—Philadelphia.—We are informed that Williamson & McLaughlin, Inc., Contractors and Engrs., 914 Lippincott Bldg., wish to receive catalogues from manufacturers of contractors' implements, machinery and supplies.

WATERPROOFING PAINTS. — Yonkers, N. Y.—Information is wanted regarding the best method of preventing dampness in ground floors and on the walls of residences. It is desired to prevent the formation of mold either by using waterpoofing paint on the walls or by any other effective method not too costly. Address "E. H. F.," care Engineering News, New York.

WOODWORKING MACHINERY. — It is stated that woodworking machinery of various kinds are wanted by the Benton Casket Co., of Bentonville, Ark., the Southern Lumber Co., of Dunn, N. C.; C. C. Henriques, 39 King St., Kingston, Jamaica, B. W. I.; R. J. Bell, of Ethel, Miss.; the Homestead Plantation Co., of Polkton, N. C., and H. L. Davis & Co., 127 E. 8th St., Chattanooga, Tenn.

## MANUFACTURING PLANTS.

*The names of parties awarded contracts are printed in capital letters.*

REVERE, MASS.—PITNAM & BROWN, carpenters, Salem, Mass., and EDW. H. POOR, mason, Peabody, Mass., have contracts to erect a three-story brick building, 80 × 200 ft., for Forbes Lithograph Co., Revere.

PITTSFIELD, MASS.—E. D. Jones & Sons Co. will build an addition, 40 × 44 ft., to their foundry. Work will be started at once.

NEW YORK, N. Y.—M. J. Ketterer, 214 West 17th St., is to erect a new wagon factory on West 19th St., an
oline engines, gas produ
belting, elevators, low p
tem, plumbing and elec
Ross & McNeil, 39 East
for a factory and wareho
Co., 214 West 17th St.
C. C. Haight, Arch., 4
plans prepared for a fac
on Beach St. Brick and
stories, 75 × 150 ft.

NEW YORK, N. Y.—W
Babbitt Soap Co., 80 Wash
ing figures on boilers, e
motors, switchboards, elect
ing, blowers, brick stack,
tory under construction in

BROOKLYN, N. Y.—P.
Manhattan Ave., Brooklyn
frame foundry for C. A
Ave. and North 13th St.

HOBOKEN, N. J.—J. B
Iron Works, 26th St. and
York, is building a factory
Hoboken and will require
generators, motors and blow

PASSAIC, N. J.—J. M. FE
been awarded general contra
to be erected at Passaic f
Brick, 4 stories, 120 × 120
tem, shafting and belting, e
etc.

HOBOKEN, N. J.—Elysian
Stapleton (S. I.), N. Y., is
tory in Hoboken, and will re
gines, shafting and belting,
motors, special machinery, e

JERSEY CITY, N. J.—The
per Co. has authorized Henry
tor, 392 Mercer St., Jersey
factory similar to the one it
Brick, 4 stories, 100 × 200 ft

PHILADELPHIA, PA.—Furn
Co., Archs., Provident Bldg.,
ready for bids for a two-story
ing, at 13th St., and Olney Ave.
ish Hospital.

Ballinger & Perrot, Archs., 1
St., have plans ready for bids
story factory building, at Willo
anna Sts., for Newman & Co.

J. B. Stetson Co., Germantown and Montgomery Aves., want sub-bids for an addition to its factory.

PHILADELPHIA, PA.—Ballinger & Perrot, Archs., have plans ready for bids for an addition to factory building, at American and Jefferson Sts., for Tuttleman Bros. & Fagen. Four stories, brick, slow-burning construction, slag roof, open plumbing, electric light, cement floors, etc.

WESTCHESTER, PA.—Baker & Dalzell, Archs., 1420 Chestnut St., Philadelphia, have plans for a two-story power house and laundry for State Normal School, Westchester.

STEELTON, PA.—BALLINGER BROS., Pittsburg, have contract to erect the brewery and ice-producing plant of National Brewing & Ice Mfg. Co., Steelton. The plant will consist of brew house, bottling works and ice plant, 8 stories high, 178 × 100 ft., with a capacity of 45,000 bbls. annually. Jacob Biehl is Pres.

WILKESBARRE, PA.—JOS. DUNFEE, Syracuse, N. Y., has contract for the erection of plant for Luzerne Brewing Co., at Wilkesbarre, at a cost of between $60,000 and $70,000, according to plans prepared by M. C. Conway, Arch., 112 East Jefferson St., Syracuse.

BALTIMORE, MD.—Thos. C. Basshor & Co., Engrs., 220 West Pratt St., have awarded contract to D. W. & G. H. THOMAS, Vickers Bldg., German near South St., for construction of shop and warerooms at 28 Light St. Brick, 5 stories, 25 × 105 ft.

Eugene Norton has bought the old No. 4 public school building on Bane St., and will convert the structure into a factory for the manufacture of electrical appliances. Five stories, 50 × 175 ft.

ELKIN, N. C.—The Carolina Casket Co. has incorporated with $10,000 cap. stock to manufacture caskets. W. F. Weir is Pres.; D. H. Cook, Engr.

CLARKSVILLE, GA.—Stanley J. Stevens, Chester, Pa., is arranging for the establishment of plant to manufacture shuttles, bobbins, insulator pins, etc.

TAMPA, FLA.—Bids are asked for the erection of a brick factory. A. H. Parslow, Arch., 1004 Florida Ave., Tampa.

MONTGOMERY, ALA.—Dixie Laundry Co., Montgomery, will be in the market for laundry machinery.

SILVER CREEK, MISS.—It is proposed to build an $8,000 ice factory and Thos. M. Ferguson, of Hattiesburg, Miss., can give information.

AGRICULTURAL COLLEGE, MISS.—At a recent meeting of the Board of Trustees of the Mississippi Agricultural and Mechanical College, the Building Committee was instructed to advertise for plans and specifications for construction of a new brick creamery and dairy building, the cost of which is not to exceed $10,000. The committee will meet July 13 at the college for the purpose of considering all plans and specifications that are submitted.

NASHVILLE, TENN.—Reports state that G. E. Schneider, of Chicago, Ill., representing German capitalists, is arranging for the erection of a brewery to cost $1,000,000 and have a yearly capacity of 300,000 barrels of beer.

NASHVILLE, TENN.—The Bauer Cooperage Co., of Lawrenceburg, Ind., according to the "Pink Sheet Daily Bulletin," will establish a branch factory here at a cost of $200,000.

TOLEDO, O.—Geo. S. Mills, Arch., Gardner Bldg., has been advised to rush plans for the new plant of the Vulcan Iron Works, which is to be erected on Dorr St. Est. cost, $250,000.

TOLEDO, O.—Bacon & Huber, Archs., Spitzer Bldg., have made plans for an addition to factory of Pope Motor Car Works.

Four stori[illegible] × 220 ft., brick, stone trim-
mings, slo[illegible] ning mill construction. Cost,
$60,000. [illegible] be used as a painting shop
for autom[illegible] and the part of the building
now used [illegible]hat purpose will be converted
into a ma[illegible] shop. A. E. Schaaf is Gen.
Mgr.

CLEVEL[illegible] O.—F. F. Hodges, Arch.,
Rose Bld[illegible]eveland, has completed plans
for a fact[illegible]ilding for the Loew Mfg. Co.,
to be erec[illegible]n West Madison Ave.

TOLED[illegible] —Plans and specifications are
being pre[illegible] by A. H. Smith, Engr., 322
The Nash[illegible]r a plant for the Toledo-Mas-
silon Br[illegible] Co. Five buildings, concrete
brick and[illegible] 1-story each 40,000 to 50,000
sq. ft., 3[illegible]P. boilers, 100 KW. generator,
500 ft. a[illegible]mpressor and a line of bridge
shop, ma[illegible] shop and smith shop machine
tools wil[illegible] required. Cost of buildings,
$40,000.[illegible]ment, $100,000.

KOKOM[illegible] IND.—The Jenkins glass factory,
which is [illegible]ocal plant of the National Flint
Glass Co.[illegible]as destroyed by fire June 12.
The loss [illegible]$125,000 and the plant will be
rebuilt.

EVANS[illegible]LE, IND.—Harris & Shopbell,
Archs., [illegible]sville, have plans for several
large mac[illegible]facturing plants.

EVANS[illegible]LE, IND.—Otto E. Koegel, pro-
prietor of [illegible]tandard Plating Works plant de-
stroyed by [illegible]re June 8, announces that he will
rebuild pl[illegible]nt at once. Bids will be in order
as soon a[illegible] plans can be completed.

DETROIT[illegible] MICH.—Pollmar & Ropes,
Archs., 2[illegible]leland Bldg., Detroit, have pre-
pared plans[illegible] and have taken figures for three-
story factory building, 56 × 123 ft., for C.
H. Little Co., 340-44 Atwater St., E. Cost,
$13,000.

Wardrop & Keil, Archs., 270 Woodward
Ave., have prepared plans and are ready to
receive bids for a three-story and basement
addition, 40 × 82 ft., to clothing factory for
H. Carhartt, 479 Michigan Ave.

The Standard Sanitary Mfg. Co., Aug. F.
Blesch, Secy., 942 Champlain St., has pur-
chased a site and will have plans made for
a three-story factory building.

Starr Engineering Co., 256 Broadway, New
York, has plans in progress for a cold stor-
age warehouse to be erected at Detroit. Con-
crete and steel, 6 stories, 150 × 150 × 180 ft.
Boilers, engines, generators, motors, eleva-
tors, steam piping, electric wiring, etc.

CHICAGO, ILL.—W. L. Stebbins, Arch.,
Monadnock Bldg., is preparing plans for a
large foundry for the Reedy Foundry &
Electric Co.

ASHLAND, WIS.—The plant of the Ash-
land Sulphite Fibre Co. was destroyed by fire
June 11. Loss, $50,000.

LA CROSSE, WIS.—The La Crosse Rubber
Mills Co. will erect an addition to its factory.
Albert Funk is Mgr.

MILWAUKEE, WIS.—JAMES STEWART
& CO., Westinghouse Bldg., Pittsburg, Pa.,
has been awarded contract for the erection
of buildings for Allis-Chalmers Co., at Mil-
waukee; to cost about $1,500,000.

MASON CITY, IA.—I. W. Keerl, care Iowa
State Bank, and A. H. Cummings, principal
promoters, are organizing a company, which
will erect a sand lime brick plant. Ralph W.
Richardson is Engr.

ST. PAUL, MINN.—Starr Engineering Co.,
256 Broadway, New York, has plans in pro-
gress for a refrigerating plant to be erected
at St. Paul. Brick, 9 stories, 75 × 130 ft.
Long & Long, Archs., 830 Hennepin Ave.,
Minneapolis, Minn.

FORT RILEY, KAN.—The bid of J. Brown
& W. U. Spangler, of Junction City, Kan.,
has been accepted for construction complete
of a blacksmith's shop at Fort Riley, at
$2,891.

GALENA, MO.—L. D. Harper will build a
flour and grist mill here.

HUNTINGTON, ARK.—Dixie Fruit Farm &
Commission Co., L. E. Lake, Mgr., will erect
building and equip with two to four-ton ice
machine and cold-storage for fruits.

ENID, OKLA.—The Enid Ice & Fuel Co.
has been chartered with $80,000 cap. stock.
Incorporators: Frank L. and Wm. L. Will-
iams and Henry B. Decker.

SHAWINIGAN FALLS, QUE.—The North-
ern Aluminum Co. is doubling the capacity
of its works and will erect buildings costing
upwards of $200,000.

BRIDGEBURG, ONT.—The Model Skirt Co.,
of Buffalo, N. Y., will build a factory here.

## CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*TRAINING DIKES.—Savannah, Ga.—Bids were received June 8 by Lt.-Col. James B. Quinn, U. S. Engrs., for building training and shore protection dikes in the Savannah River, the bid of A. J. Twiggs, Augusta, Ga., at $7,775 being recommended for acceptance. Itemized bid of Mr. Twiggs was as follows: 800 lin. ft. piling, $2.50; 7,000 cu. yds. brush bundles, 60 cts.; stone, $2.25.

*WATER METERS.—Winnipeg, Man.—Bids were received June 5 by C. J. Brown, Cy. Clk., for furnishing water meters, the contract being awarded to the NATIONAL METER CO., Chicago, Ill., for Empire meters, at the following figures: 1,500 ¾-in., $12.50 each; 200 ¾-in., $18.75; 50 1-in., $25; all f. o. b., Winnipeg.

*RUBBLESTONE.—Boston, Mass.—Following bids per ton of 2,000 lbs., were received June 14 by Col. W. S. Stanton, U. S. Engrs., for about 200,000 tons rubblestone delivered in breakwater at Sandy Bay, Mass.: The Foundation Contracting Co., New York, 60 cts.; Rockport Granite Co. and Pigeon Hill Granite Co., Rockport, Mass., 76½ cts.

*CONCRETE TERRACE WALL.—Following bids were received June 12 by Board Park Commissioners, James L. Tighe, Cy. Engr., for constructing terrace wall: Fred. T. Ley, Springfield, Mass., $4.50 per running foot; George M. Atkins & Co., $3.95 per running foot. Action on the bids was to be taken June 19.

*WATER PURIFICATION WORKS.—Columbus, O.—Following bids were received June 15 by Board Public Service, Julian Griggs, Ch. Engr., for water purification works, Contract No. 13, improvement of water supply; (1) Ambrose B. Stannard, (2) Thomas Lightbody, (3) Sullivan, Murphy & Miles, (4) Westwater & Casey:

Bids received at Columbus, O., June 15, 1905, by Board Public Service, Julian Griggs, Chief Engr., for Water Purification Works, Contract No. 13, Improvement of Water Supply.

| Items. | (1) | (2) | (3) | (4) |
|---|---|---|---|---|
| 94,000 cu. yds. excavation | .52 | .35 | .35 | .60 |
| 25,400 cu. yds. rolled embankment | .43 | .20 | .09 | .40 |
| 4,000 cu. yds. loam | .28 | 1.00 | .33 | .40 |
| 5 acres of seeding | 40.00 | 1.00 | 30.00 | 25.00 |
| 540 sq. yds. of sodding | .75 | .50 | 97.20 | .50 |
| 2,880 cu. yds. broken stone or gravel backing | .65 | 1.00 | 1.24 | .90 |
| 860 cu. yds. stone paving | 8.00 | 3.00 | 5.72 | 1.60 |
| 660 cu. yds. gravel in roadways | .86 | 1.50 | .75 | .75 |
| 170 lin. ft. paved gutter | .80 | .50 | .40 | .60 |
| 100 sq. yds. granolithic pavement | 2.57 | 1.00 | 1.55 | 1.50 |
| 2,800 lin. ft. railroad track, ballasted | 4.00 | 2.10 | 2.30 | 2.00 |
| 220 lin. ft. railroad track on trestle | 3.90 | 1.60 | 1.80 | 2.00 |
| 9,760 cu. yds. puddle | 3.50 | 2.20 | 1.74 | 1.90 |
| 110 cu. yds. brick masonry | 11.00 | 11.00 | 12.00 | 12.00 |
| 1,000 cu. yds. concrete, Class "A" | 9.00 | 8.00 | 7.00 | 18.50 |
| 320 cu. yds. concrete, Class "B" | 9.50 | 8.00 | 10.00 | 13.00 |
| 580 cu. yds. concrete, Class "C" | 13.45 | 8.00 | 14.00 | 12.50 |
| 3,400 cu. yds. concrete, Class "D" | 8.80 | 8.00 | 10.00 | 6.95 |
| 1,950 cu. yds. concrete, Class "E" | 9.00 | 8.00 | 15.00 | 7.00 |
| 8,350 cu. yds. concrete, Class "F" | 5.90 | 8.00 | 7.50 | 6.30 |
| 10,560 cu. yds. concrete, Class "G" | 6.10 | 8.00 | 6.75 | 6.60 |
| 4,980 cu. yds. concrete, Class "H" | 5.20 | 8.00 | 4.75 | 6.40 |
| 120 cu. yds. concrete, Class "I" | 10.00 | 8.00 | 13.66 | 25.00 |
| 236 tons twisted steel rods | 65.00 | 45.00 | 60.00 | 57.00 |
| 350 lin. ft. 8" vit. sewer pipe | .45 | .20 | .33 | 1.25 |
| 500 lin. ft. 24" vit. sewer pipe | 2.90 | 1.00 | 1.88 | 2.25 |
| 360 lin. ft. 30" vit. sewer pipe | 2.85 | 3.00 | 3.00 | 3.50 |
| 380 tons cast-iron pipe | 47.00 | 45.00 | 40.00 | 35.00 |
| 152 tons bell and spigot special castings | 97.00 | 100.00 | 85.00 | 65.00 |
| 80 tons flange special castings | 120.00 | 115.00 | 97.50 | 85.00 |
| 2,000 lbs. pipe supports and hangers | .08 | .10 | .08 | .05 |
| Riveted steel pipe | 5,050.00 | 2,500.00 | 1,815.00 | 2,750.00 |
| 600 lin. ft. 2½" wrought-iron pipe | .46 | .50 | .33 | .55 |
| 250 lin. ft. 3" wrought-iron pipe | .60 | .60 | .50 | 1.00 |
| 30 lin. ft. 4" wrought-iron pipe | .80 | .75 | .68 | 2.00 |
| 36 2½" brass hose valves | 6.50 | 5.00 | 5.00 | 5.00 |
| 3 2½" gate valves | 6.50 | 5.00 | 4.75 | 5.00 |
| 8 3" gate valves | 9.10 | 10.00 | 5.80 | 5.00 |
| 5 4" gate valves | 10.00 | 10.00 | 7.50 | 7.00 |
| 3 5" gate valves | 14.00 | 12.00 | 10.00 | 10.00 |
| 7 6" gate valves | 16.00 | 15.00 | 11.40 | 10.00 |
| 1 10" gate valve | 34.00 | 35.00 | 28.50 | 24.00 |
| 6 20" gate valves | 120.00 | 125.00 | 105.75 | 125.00 |
| 2 24" gate valves, geared | 240.00 | 200.00 | 141.50 | 235.00 |
| 1 30" gate valve, geared | 305.00 | 350.00 | 210.00 | 305.00 |
| 4 36" gate valves, geared | 420.00 | 400.00 | 328.00 | 420.00 |
| 20 10" gate valves, hydry. operd | 100.00 | 90.00 | 74.00 | 105.00 |
| 40 20" gate valves, hydry. operd | 230.00 | 275.00 | 250.00 | 200.00 |
| 1 4" check valve | 18.00 | 15.00 | 11.25 | 16.50 |
| 1 3" water pressure regulator | 47.00 | 125.00 | 58.00 | 275.00 |
| 6 Indicator stands | 35.00 | 25.00 | 19.50 | 45.00 |
| 900 lbs. extension stems | .07 | .05 | .10 | .08 |
| 1 5" fire hydrant | 45.00 | 50.00 | 45.00 | 40.00 |
| 72 6" quick open. cir. sluice gates | 20.00 | 15.00 | 10.35 | 15.50 |
| 15 8" quick open. cir. sluice gates | 23.00 | 25.00 | 17.25 | 18.00 |
| 1 8" cir. sluice gate, rising stem | 48.00 | 50.00 | 58.00 | 40.00 |
| 4 24" cir. sluice gates, rising stem | 158.00 | 175.00 | 165.00 | 150.00 |
| 2 36" cir. sluice gates, rising stem | 210.00 | 225.00 | 180.00 | 200.00 |
| 18 24" × 24" rect. sluice gates, ris. stem | 222.00 | 200.00 | 190.00 | 195.00 |
| 6 36" × 36" rect. sluice gates, ris. stem | 275.00 | 300.00 | 262.00 | 250.00 |
| 1 48" × 60" rect. sluice gate, ris. stem | 4.75 | ..... | 510.00 | 450.00 |
| 132 24" × 36" rect. flap gates | 19.00 | ..... | 7.50 | 5.50 |
| 48" Venturi meter | 2,800.00 | ..... | 3,500.00 | 3,000.00 |
| 10 Filter controllers | 875.00 | ..... | 900.00 | 825.00 |
| 1 Wash water controller | 2,100.00 | ..... | 1,700.00 | 2,000.00 |
| Air controller | 500.00 | ..... | 685.00 | 500.00 |
| Gage board and appurtenances | 950.00 | ..... | 1,000.00 | 1,000.00 |
| 4 Depth recorders, Type "A" | 105.00 | ..... | 130.00 | 110.00 |
| 1 Depth recorder, Type "B" | 120.00 | ..... | 140.00 | 165.00 |
| 1 Depth recorder, Type "C" | 150.00 | ..... | 170.00 | 175.00 |
| 3 Depth recorders, Type "C" | 120.00 | ..... | 140.00 | 165.00 |
| 2 Water level indicators for clear water reservoir | 105.00 | ..... | 290.00 | 160.00 |
| 1 Water level indic. for settling basin | 98.00 | ..... | 145.00 | 125.00 |
| 10 Operating tables | 550.00 | 800.00 | 1,000.00 | 624.00 |
| 2 Ejectors | 13.00 | 100.00 | 42.50 | 5.00 |
| 12 Lime saturator weirs | 67.00 | 30.00 | 7.50 | 50.00 |
| Head house weirs | 2,772.00 | 1,500.00 | 5,290.00 | 1,000.00 |
| Air compressor | 970.00 | 1,000.00 | 1,200.00 | 1,100.00 |
| Apron conveyor | 2,900.00 | 2,500.00 | 3,360.00 | 3,080.00 |
| Stir'g. mchy. for lime saturators | 2,200.00 | 4,200.00 | 12,738.00 | 6,600.00 |
| 3 Sets stir'g. mchy. for lime slaking and lime solution tanks | 500.00 | 400.00 | 1,544.00 | 385.00 |
| Ventilation system | 305.00 | 250.00 | 372.00 | 330.00 |
| 4 Soda and coagulant dissolving tanks | 130.00 | 80.00 | 145.00 | 220.00 |
| 3 Lime slaking tanks | 120.00 | 80.00 | 80.00 | 77.00 |
| Chemical feed regulators | 680.00 | 1,500.00 | 5,879.00 | 2,200.00 |
| Piping in head house | 2,800.00 | 2,700.00 | 3,100.00 | 1,650.00 |
| Coagulant piping to settling basin | 650.00 | 1,650.00 | 2,222.00 | 1,100.00 |
| Air tanks | 300.00 | 2,000.00 | 2,687.00 | 1,958.00 |
| Hand traveling cranes | 1,025.00 | 500.00 | 1,195.00 | 1,095.00 |
| Spiral staircase | 200.00 | 300.00 | 500.00 | 165.00 |
| Stop planks for mixing tanks | 1,580.00 | 665.00 | 720.00 | 1,556.00 |
| Stop planks for settling basin | 1,720.00 | 400.00 | 710.00 | 1,710.00 |
| 10 Strainer systems | 1,860.00 | 450.00 | 2,688.00 | 374.00 |
| 10 Air systems | 150.00 | 1,050.00 | 1,498.00 | 550.00 |
| 300 cu. yds. filter gravel | 2.00 | 5.00 | 2.00 | 6.90 |
| 1,010 cu. yds. filter sand | 8.00 | 5.00 | 1.75 | 6.90 |
| 620 lin. ft. railing, Type "A" | 1.50 | 1.00 | 1.65 | .70 |
| 120 lin. ft. railing, Type "B" | 2.50 | 350.00 | 5.00 | 3.30 |
| 45,000 lbs. iron castings | .03½ | .03 | .05 | .03 |
| 20,000 lbs. structural steel | .04 | .03 | .045 | .04 |
| Steel roof of main buildings | 12000.00 | 11,790.00 | 11.860.00 | 12,864.00 |
| Steel roof of gate house | 3,500.00 | 3,000.00 | 2 985.00 | 2,820.00 |
| Steel roof of wash water tank | 500.00 | 650.00 | 980.00 | 632.00 |
| Brick masonry in main bldgs | 13000.00 | 11,620.00 | 14.520.00 | 10,350.00 |
| Brick masonry in gate house | 5,000.00 | 4,349.00 | 3,630.00 | 4,700.00 |
| Hollow t.-c. roof tile main bldgs | 2,940.00 | 1,500.00 | 4,400.00 | 3,240.00 |
| Hollow t.-c. roof tile gate house | 930.00 | 4,728.00 | 1,320.00 | 960.00 |
| Hollow t.-c. partit'n tile main bldgs | 340.00 | 637.00 | 872.00 | 395.00 |
| Slate roof and sheet met. work main bldgs | 4,700.00 | 3,850.00 | 3,842.00 | 4,130.00 |
| Slate roof and sheet met. work gate house | 1,500.00 | 800.00 | 1,100.00 | 809.00 |
| Carpenter and millwork in main bldgs | 6,000.00 | 4,809.00 | 8,397.00 | 5,224.00 |
| Carpenter and millwork in gate house | 2,600.00 | 1,200.00 | 3,112.00 | 1,580.00 |
| Plaster and metal lath in main bldgs | 1 900.00 | 4,400.00 | 2,577.00 | 1,355.00 |
| Plastering in gate house | 400.00 | 500.00 | 495.00 | 240.00 |
| Painting and g'azing in main bldgs | 900.00 | 800.00 | 1,100.00 | 1,107.00 |
| Painting and g'azing in gate house | 200.00 | 200.00 | 301.00 | 301.00 |
| Plumbing | 920.00 | 1,500.00 | 2,898.00 | 1,013.00 |
| Gas fitting | 560.00 | 331.00 | 632.00 | 580.00 |
| Steam heating | 1,250.00 | 1 550.00 | 2,904.00 | 1,386.00 |
| Elec. wiring and lighting main bldgs | 920.00 | 1,434.00 | 1,687.00 | 1,016.00 |
| Elec. wiring and lighting gate house | 420.00 | 220.00 | 121.00 | 473.00 |
| Total | $555,748 | $542,980 | $582,355 | $524,209 |

*EXCAVATION.—Panama.—Following bids were received June 15 by Isthmian Canal Commission for excavating entrance to an inner harbor at Colon, Panama; (1) classified material, stations 0 to 51; (2) without classification, stations 0 to 51; (3) classified material, stations 51 to 100; (4) unclassified material, stations 51 to 100; (5) classified material, stations 0 to 100; (6) unclassified material, stations 0 to 100; (7) for pumping material dredged over 1,000 ft. as follows: A, 2,000 to 3,000 ft.; B, 3,000 to 4,000 ft.; C, 4,000 to 5,000 ft.; D, 5,000 to 6,000 ft. Michael J. Dady, 350 Fulton St., Brooklyn, N. Y., (6) 40 ft. deep, 63 cts., 35 ft. deep, 71 cts., 30 ft. deep, 79 cts. North American Dredging Co., San Francisco, Cal., (1) any depth, rock, $2.82; clay, 76 cts., mud and sand, 24.8 cts., (2) any depth, 76 cts., (3) any depth, rock, $6.00, clay, 76 cts., mud and sand, 24.8 cts.; (4) any depth, 76 cts., (5) any depth, 76 cts., (7a) 2 cts., 5 4 cts., c 6 cts., d 8 cts. For excavating drainage canal; coral, $5; indurated clay, $1.50; mud and sand, 35 cts. George W. Catt, Park Row, New York, (1) coral rock and other rock, 40 ft. deep, $3.20; 35 ft., $5; 30 ft., $4.80. Indurated clay, 40 ft., $1.05; 35 ft., $1; 30 ft., 95 cts. Mud, sand and stiff clay, 40 ft., 17½ cts.; 35 ft., 17 cts.; 30 ft., 17 cts.; (7a) 7½ cts., b 4 cts., c 8 cts., d 14 cts. For excavating a drainage channel for earth 50 cts., coral rock $2.50; (2) rock, 40 ft., $2.10, 35 rt. $2, 30 ft. $2; clay 40 ft. $1.50, 35 ft. $1.50, 30 ft. $1.50; mud and sand, 40 ft. 17 cts., 35 ft. 16 cts., 30 ft. 16 cts. Excavating drainage channel under paragraph 35. For earth 50 cts., coral $2.50.

*BRICK PAVING.—Corning, N. Y.—Bids were received June 15 by Board Public Works, Robert H. Canfield, Supt., for paving East Market St., with brick for a length of 1,700 ft., and a width of 40 ft., on a foundation of 6 ins. of concrete, and with a concrete curb, 5½ ins. wide and 6 ins. high, the contract being let to McGREEVY CONSTRUCTION CO., Ithaca, N. Y., at the following bid: 2,500 cu. yds. earth excavation, 30 cts.; 7,500 sq. yds. brick paving, $1.40; 3,500 lin. ft. concrete curb, 23 cts.; 300 lin. ft. curb protection, 33 cts.; total, $13,654.

## MISCELLANEOUS CONTRACTS.

*The names of parties awarded contracts are printed in capital letters.*

DREDGING.—Mobile, Ala.—Bids are asked until July 14 for dredging in Mobile Harbor. Major W. E. Craighill, U. S. Engrs. (Advertised, Engineering News.)

WHARF REPAIRS.—St. Louis, Mo.—Board Public Improvements has awarded contract for keeping public wharf in repair for ensuing year to EYERMANN & BRO., for $10,030.

BROOK WORK.—Newton, Mass.—Bids are asked until noon, June 28, for widening, deepening, straightening and relocating Hammond Brook. Charles W. Ross, St. Comr. Irving T. Farnham, Cy. Engr.

WRECK REMOVAL.—Charleston, S. C.—Bids are asked until July 20, for removal of wreck of Schooner "Kate V. Aitken," Charleston harbor. Capt. G. P. Howell, Engr. (Advertised, Engineering News.)

SMELTER.—Golconda, Ill.—Fairview Fluor Spar Co., John Mulholland, Pres., is mining about 250 tons of lead per month, carrying from four to eight ounces of silver and is investigating matter of erecting smelter.

QUARRY SPALLS.—New Orleans, La.—Bids are asked until July 5 for furnishing about 23,000 tons of rock and about 4,500 tons of quarry spalls at points on Mississippi River. Capt. J. F. McIndoe, U. S. Engrs.

DRY DOCK.—Newport News, Va.—Newport News Shipbuilding & Dry Dock Co., W. A. Post, Gen. Mgr., is stated to be having plans prepared for a new dry dock, which with other improvements will cost about $1,000,000.

STEEL.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until 10 a. m., July 18 for furnishing about 8,950 tons of steel plates, channels, angles, shapes and castings. H. T. B. Harris, Paym. Gen., U. S. N.

DREDGING.—Washington, D. C.—Specifications for 110,000 cu. yds. dredging at League Island Navy Yard, Pa., may be seen at office of Engineering News, 220 Broadway, New York. Bids are asked until July 1 as was stated in our issue of last week.

TUNNEL.—Sacramento, Cal.—City Trustees have awarded contract for furnishing material and constructing tunnel under railway crossing at 12th and 13th Sts., to the SOUTHERN PACIFIC RY., J. H. Wallace, Engr. M. W., San Francisco, for $10,000.

PILES, CEMENT.—New York, N. Y.—Maurice Featherson, Comr. Docks, has awarded contract for furnishing 300 white oak piles to STANLEY H. MINER, and contract for 10,000 bbls. of Portland cement to J. KANZ & CO. Bids were opened June 16.

SEARCHLIGHT OUTFITS.—Washington, D. C.—Bids are asked until 2 p. m., July 5 (instead of June 20, as originally announced) for furnishing and delivering 36-in. searchlight outfits. Major S. W. Roessler, U. S. Engrs. (Advertised, Engineering News.)

DRAINAGE WORK.—Osnabruck, Ont.—Bids are asked by H. E. Hodgins, Township Clk., Osnabruck Centre, until 12 noon, June 27 for the construction of that part of the River Aux Raisin drainage scheme within the township limits. W. H. Maywood, Engr.

WIRE, ROPE, ETC.—Memphis, Tenn.—Bids are asked until July 17 for furnishing steel and silicon bronze wire, wire strand, wire fence staples, Manila rope and brush and poles. Capt. E. W. Van C. Lucas, U. S. Engrs. (Advertised, Engineering News.)

COALING PLANT.—Pensacola, Fla.—Specifications for construction of coaling plant at this place may be seen at office of Engineering News, 220 Broadway, New York. Bids are asked by Bureau Yards and Docks until July 15, as was stated in our issue of June 17.

TIMBER DIKE.—Boston, Mass.—Bids are asked by Board of Harbor and Land Commissioners until 2 p. m., June 27, for construction of about 900 ft. of timber dike and 1,000 ft. of wood fence with sand embankment at eastern end of Stage Harbor, Chatham.

DREDGING.—Mobile, Ala.—But one bid was received June 15 by Major W. E. Craighill, U. S. Engrs., for dredging Mobile Bar, Alabama. The bid was submitted by the Southern Dredging Co., Mobile, Ala., which offered to do the work for 30 cts. per cu. yd., bin measurement.

DREDGING.—Hawaii.—Bids are asked until 12 noon July 20 for dredging in Honolulu Harbor, Hawaii. Lieut. J. R. Slattery, U. S. Engrs. (Advertised, Engineering News.)

LEVEE WORK.—Memphis, Tenn.—Contract for all levee work in the upper and lower St. Francis and White River Levee Districts was awarded June 10 to TALLEY-BATES CONSTRUCTION CO., Memphis, Tenn., for $369,238. Bids were received by Capt. E. W. Van Lucas, U. S. Engrs.

GYMNASTIC APPARATUS.—Washington, D. C.—Bids are asked until June 26 for furnishing and installing gymnastic apparatus in gymnasiums to be erected at eight military posts in different parts of the United States. Capt. A. W. Butts, Q. M., U. S. A. (Advertised, Engineering News.)

DITCH WORK.—St. Paul, Minn.—State Drainage Board has awarded following contracts for ditch work, bids for which were opened June 15: Wing River Ditch and Kimberly Ditch, JOHN KOHLER, Frazee, Minn., $3,906; Roseau River Ditch, STANDARD DITCH CO., Windom, Minn., $14,040.

DREDGING.—Puget Sound, Wash.—Bids are asked until July 29, for removing (5,000) cu. yds., more or less, of material from waters of Navy Yard at Puget Sound. Mordecai T. Endicott, Ch. Bureau, Yards & Docks, Washington, D. C. Specifications are on file at New York office of Engineering News.

DREDGING.—Ottawa, Ont.—Department of Public Works has awarded contract for dredging at Belle River to CHATHAM DREDGING CO., Chatham, Ont.; about $7,000 will be expended. Contract for extension of Rivard drain for Dover Township has also been awarded to above company, for about $4,500.

DIKE.—Los Angeles, Cal.—Bids are asked by Supervising Engineer, U. S. Reclamation Service, until 2 p. m., Aug. 17 for construction of about 12 miles of dike involving excavation of about 445,000 cu. yds. of earth and clearing 125 acres, for reclamation of Yuma Valley, Arizona. (Advertised, Engineering News.)

DREDGING, ETC.—Philadelphia, Pa.—Bids are asked until 12 noon July 17 for dredging in Delaware River. Bids are also asked for dredging, and for changing part of present bulkhead near Edgemoor, Del., and construction of revetment alongside jetty on upper side of Christiana River. (Advertised, Engineering News.)

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until July 18, for supplying at Guantanemo Bay, Cuba, a quantity of screw bolts, etc., wire rope, iron wheels, spikes, tools, yellow pine plank, piles and ties; steel sheet piling, steel rails and plates, and cut-off valves. H T. B. Harris, Paym. Gen. U. S. Navy.

SUB-GRADE.—Lynn, Mass.—Bids are asked until noon, June 29, by Board Public Works, for building sub-grade between Commercial and Pleasant Sts., requiring approximately 65 cu. yds. concrete culvert; 4,500 cu. yds. stone embankment; 45,000 cu. yds. earth embankment; rip rap, 1,400 sq. yds. H. R. Parker, Clk.

CAISSONS.—Washington, D. C.—Bids were opened at the War Department June 13, for the construction of 164 caissons for field artillery, of the type with which the army and the militia are soon to be armed. Four concerns only competed for the contract, the bid of the Driggs-Seabury Ordnance Corporation, at $1,293 each, being the lowest.

CABLES.—Philadelphia, Pa.—Bids are asked until 11 a. m., July 1, for furnishing and installing underground, lead-incased, braid, covered, incandescent-lighting and power cables at League Island Navy Yard. Mordecai T. Endicott, Ch. Bureau Yards and Docks, Washington, D. C. Specifications for this work are on file at office of Engineering News, New York

LAMPS, CEMENT, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until July 5 for furnishing a quantity of naval supplies, among which are the following: Schedule 4, incandescent lamps, carbons, globes, etc., wire lamp cord, conduit, electrical supplies, Portland cement, Plum Island sand, orange peel buckets, piles, plain and creosoted yellow pine, solder, etc. H. Harris, Paym. Gen., U. S. N.

SMELTER, ETC.—Cape Breton, N. S.—R. W. Petre, Mining Engr., Harewood Farm, Chase, Md., has gone to Nova Scotia to complete the purchase of a gold mine and to examine a copper deposit in Cape Breton. Some light machinery will be required for the gold mine, but this will probably be bought to better advantage on the ground. If the prospects of the copper mine are favorable it is likely that a large smelting plant will be erected.

JETTY WORK.—Cleveland, O.—Following bids were received June 8 by Col. Dan. C. Kingman, U. S. Engrs., for stone reinforcement and repair of jetties at Port Clinton and Vermillion, (1) being bid for Port Clinton work, (2) bid for Vermillion work and (3) totals: Buckeye Contracting Co., Cleveland, O., (1) $1,677, (2) $12,100, (3) $13,777 (recommended for acceptance); L. P. & J. A. Smith Co., Cleveland, O., (1) $2,600, (2) $14,400, (3) $47,000.

TRACK BOLTS, SPIKES, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until July 18 for furnishing a quantity of naval supplies, among which are the following: Schedule 9, track bolts, spikes, Oregon pine, ties, piles, iron, splice bars, T rails, soil pipe and specials, urinals, water-closets, rubber-covered wire; schedule 10, nuts, nails, drills, jacks, carborundum wheels, hack-saw blades, miscellaneous hardware, copper, tool steel, motors, chairs; schedule 11, fire brick, brick dust, etc. H. T. B. Harris, Paym. Gen. U. S. N.

ORDNANCE.—Washington, D. C. — The Navy Department has awarded contract for guns and mounts for the battleship New Hampshire, and the armored cruisers South Carolina and Montana, as follows: Bethlehem Steel Co., four 12-in. guns at $51,644 each, and eight 8-in. mounts at $19,990 each; Midvale Steel Co., 32 6-in. guns at $12,860 each, 12 7-in. guns at $14,355 each, eight 8-in. guns at $17,142 each, and 33 6-in. mounts at $7,588 each. The guns are to be complete with spare parts and accessories, while the mounts are to be complete with sights.

DITCH.—Onawa, Ia.—Contracts for constructing Monona-Harrison drainage ditch requiring about 3,272,700 cu. yds. excavation have been awarded as follows: CANAL CONSTRUCTION CO., 40 Dearborn St., Chicago, Ill., Sec. No. 1, 970,174 cu. yds. black loam, 11½ cts. per cu. yd., and 556,106 cu. yds. black loam at 13½ cts.; FARIS-KESL CONSTRUCTION CO., LTD., Boise, Idaho, Secs. Nos. 2 and 3, consisting of 1,686,267 cu. yds. black loam, 12½ cts.; FRED. M. CRANE, Little Sioux, Ia., lateral No. 1 drydtich, 50,165 cu. yds. black loam, 11 cts. Bids were opened June 8.

STONE, PIPE, CEMENT, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, until 10 a. m., June 27 for furnishing a quantity of naval supplies, among which are the following: Schedule 300, building stone; schedule 302, pipe-cutting machines, tools, pipe and fittings, smoke pipe, freight wagon; schedule 303, incandescent lamps, wire, rheostats, electrical supplies, gneiss, asphalt, Portland cement, brick, frames and sash, glass slab, window glass, analytical balances, etc., scale, shafting and pulleys, hardware and tools, blacksmiths' forges, oil fillers and extractor, hydraulic jacks, engine lathe, drill press, etc. H. T. B. Harris, Paym. Gen., U. S. N.

MINING WORK.—Loomis, Wash.—Bids will be received until July 1 for $8,000 to $10,000 worth of development work on the Copper World Extension Mining Co.'s claims on Palmer mountain, Okanogan County, Washington, 200 ft. of shafting, 5×9 inside of timbers, balance cross cut tunnel 5 × 6½ ft. Present depth of shaft 100 ft. Bids on shaft and cross cut to be made separately. Bids will also be received on prospect hole instead of shaft. Company's steam plant ready for use. Bids must be submitted, in duplicate, one copy to H. C. Moore, care W. E. Grant, Loomis, Wash., and one copy to A. L. Corman, Secy., Columbus, O. For particulars address H. C. Moore, Loomis.

## INDUSTRIAL NOTES.

THE INGERSOLL-SERGEANT DRILL CO. and the RAND DRILL CO. have been united into a new company called the Ingersoll-Rand Co. The new corporation was formed under the laws of New Jersey with a capital of $10,000,000, of which $5,000,000 is preferred stock and the balance common. The factories of the two companies are located at Phillipsburg, N. J.; Easton, Pa.; Tarrytown, N. Y.; Ovening, N. Y.; Painted Post, N. Y.; 34th St., New York City, and Sherbrooke, Que. They will all be operated.

The officers of the Ingersoll-Rand Co. are as follows: President, W. L. Saunders, formerly President of the Ingersoll-Sergeant Drill Co.; First Vice-President, Geo. Doubleday, formerly Treasurer of the Ingersoll-Sergeant Drill Co.; Vice-Presidents, Jasper R. Rand, formerly President of the Rand Drill Co.; John A. McCall, President of the New York Life Insurance Co.; J. P. Grace, Vice-President of W. R. Grace & Co.; Geo. R. Elder, Gen. Mgr. Manufacturing Department; Treasurer, W. R. Grace, formerly Secretary of the Ingersoll-Sergeant Drill Co.; Secretary, F. A. Brainerd, formerly Treasurer of the Rand Dill Co. For the present the main offices of the new company will be located at 26 Cortlandt St., New York.

**For other Proposal Advertisements see pages 35, 36, 37, 38, 39, 40, 41 of Advertisements and Construction News page 242.**

## REINFORCED CONCRETE.

Florida East Coast Railway.

Sealed proposals will be received until 3 o'clock P. M., July 31st, at the office of J. C. Meredith, Constructing Engineer, F. E. C. Ry., Miami, Fla., for the construction and completion of reinforced concrete arch work involving the expenditure of about 80,000 cubic yards of concrete on the proposed Key West Extension of the F. E. C. Ry., on the opening between Long Key and Conch Key.

Specifications, forms of proposal and particulars may be obtained on application at the office of the Constructing Engineer, where plans may be inspected.

Each bid must be accompanied by a certified check, payable to the Florida East Coast Ry. Co. for 2% of the contract price, as a guarantee that the bidder will, if successful, promptly execute satisfactory contract and furnish bond in the sum of 20% of the contract price for the faithful performance of the work. The right is reserved to reject any and all bids and waive technical defects if the interests of the Railway Company require it.

Bidders are invited to be present. 25-6t

## WATER-MAIN MATERIAL.

Eldora, Ia.

Sealed proposals will be received by the undersigned for the city of Eldora, Iowa, until 7 o'clock P. M., June 30, 1905, at which time they will be publicly opened and read by the purchasing committee at the council chamber in said city, for furnishing 850 feet of 4-in standard cast-iron water pipe, 2 regular tees, 4 × 4 × 4 standard cast-iron, and 2 regular plugs 4-inch standard cast-iron. Also invite substitute proposals to furnish minimum car load of said material. All laid down at Eldora.

Proposal should be marked: "Proposals for Water-Main Material."

The City reserves the right to reject any and all proposals.

Eldora, Iowa, June 19, 1905.

L. F. BROWN,
25-1t Chairman Purchasing Committee.

## COUNTY BRIDGES.

County Controller's Office,
Reading, Pa., June 20, 1905.

Sealed proposals will be received at this office up to 10 A. M., Friday, June 30th, 1905, for the following county bridges:

Eagle Point Bridge.—Over Mill creek, Maxatawny Township. For a Steel Truss Superstructure with plank flooring. Masonry work according to plans and specifications on file in the County Commissioner's Office, Reading, Pa.

Glendale Bridge.—Over Iron Stone creek, Douglass Township. 1st. For a Steel Superstructure with a concrete roadway and abutments. 2d. For a concrete arch bridge.

Plans and specifications can be procured upon application to the Commissioner's Office. A certified check equal to 10 per ent. of the aggregate amount must accompany each bid.

The right is reserved to reject any or all bids or parts of bids.

H. F. LIVINGOOD,
25-1t County Controller.

**By N. W. BOWE & SON, Real Estate Auctioneers, Richmond, Va.**

**Sale by Public Auction of the Shipbuilding Plant, Machinery, Tools, and Other Equipment of the William R. Trigg Company, Richmond, Va.**

The undersigned Special Commissioners of the Chancery Court of the City of Richmond, will offer for sale by public auction, on the premises at Richmond, Virginia, on the Tenth day of July, 1905, all the property of the William R. Trigg Company, consisting of that well-located and thoroughly equipped shipbuilding plant, with the machinery, derricks, tools, and appliances belonging to the same.

This property is most eligibly situated for the purpose of a shipbuilding plant, car works, or other like enterprises. The machinery on hand, recently purchased at a cost of over $400,000, is of the most approved labor-saving design, and in first-class condition. The real estate will be offered both in parcels and as a whole, and in like manner the machinery, tools, etc., will be offered in parcels and as a whole. At the same time the Richmond Dock, a part of this plant, which is in itself an income-producing property, will be offered for sale separately. This sale presents exceptional opportunities to capitalists, manufacturers, and other parties interested in industrial enterprises, to purchase on easy terms, and at fair prices, most desirable property.

Upon application to the undersigned, pamphlets, maps, and other printed matter presenting full information as to the terms of sale, character and location of the property, and all like data, will be furnished.

BEVERLEY B. MUNFORD,
LILBURN T. MYERS,
Special Commissioners.

In the Clerk's Office of the Chancery Court, Richmond, Virginia.

S. H. HAWES & CO., who sue, etc.
vs.
WILLIAM R. TRIGG COMPANY et als.

I hereby certify that the bond required of the above mentioned Beverley B. Munford and Lilburn T. Myers, Special Commissioners, appointed by the decree in the aforesaid suit entered on the 23d of May, 1905, has been duly executed.

(Signed) CHARLES O. SAVILLE,
25-2t Clerk.

U. S. ENGINEER OFFICE, Charleston, S. C., June 20, 1905.—Sealed proposals for removal of wreck of schooner "Kate V. Aitken," Charleston Harbor, will be received at this office until 12 o'clock noon, July 20, 1905, and then publicly opened. Information on application. G. P. HOWELL, Capt., Engrs. 25-4t

U. S. ENGINEER OFFICE, 537 Congress St., Portland, Me., May 29, 1905.—Sealed proposals for dredging in York Harbor, Me., will be received here until 12 M., June 30, 1905, and then publicly opened. Information furnished on application. W. M. BLACK, Maj., Engrs. 22-4t

U. S. ENGINEER OFFICE, Newport, R. I., June 8, 1905.—Sealed proposals for dredging in the entrance channel to Great Salt Pond, Block Island, R. I., will be received here until 11 a. m., July 8, 1905, and then publicly opened. Information furnished on application. J. H. WILLARD, Lt.-Col., Engrs. 24-2t

U. S. ENGINEER OFFICE, Mobile, Ala., June 13, 1905.—Sealed proposals for dredging in Mobile Harbor, Ala., will be received at this office until 11 o'clock A. M., July 14, 1905, and then publicly opened. Specifications, blank forms and all available information furnished on application. W. E. CRAIGHILL, Major, Engrs. 25-4t

## ELECTRIC LIG[illegible] PLANT.

Sealed proposals will b[illegible] eived by the Board of Public Servi[illegible] the City of Youngstown, Ohio, until [illegible] o'clock noon, Wednesday, July 5, 190[illegible] one electric light plant "complete" [illegible] Water-Works Pumping Station and Fil[illegible]ant.

Plans and specification[illegible] be seen and blank forms for bids had [illegible] office of the Board of Public Service.

Bids shall contain the [illegible]me of every person interested, and acco[illegible]ed by a sufficient bond or a certified [illegible] of $5000, that, if the bid or any p[illegible]ereof is accepted, a contract will be [illegible]ed into and the performance of it prop[illegible]cured.

The Board of Public Se[illegible] reserves the right to reject any or all b[illegible]

By order of the Board of [illegible] Service.

G. T. [illegible]SER,
25-2t Clerk.

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LAKE MEMPHREMAGOG

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The "Switzerland of America" this region has been called, and many people see in Memphremagog another Loch Lomond, while the Canadian portion has frequently been termed the "Geneva of Canada." In order to get a comprehensive idea of the marvelous scenic surprises of this region, send two cents in stamps to the General Passenger Department, Boston & Maine Railroad, Boston, for their beautiful illustrated booklet, entitled "Lake Memphremagog and About There," and two cents for the companion booklet, entitled "Valley of the Connecticut and Northern Vermont." 25-1t

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